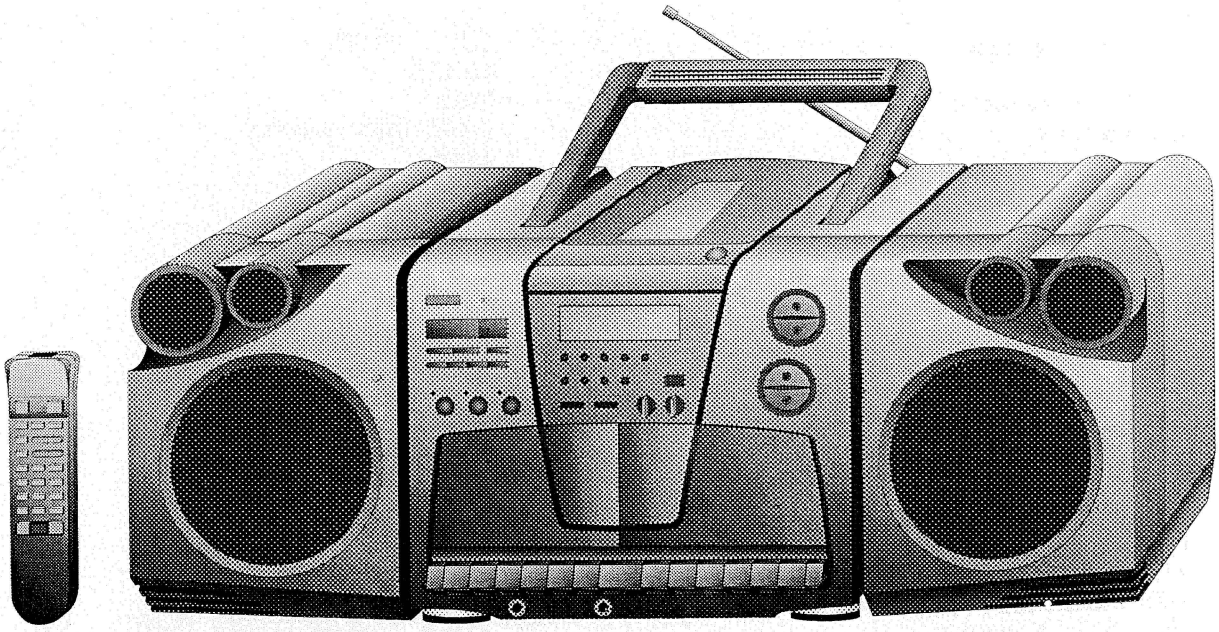
SANSUI

SERVICE MANUAL

MODEL RC-D770

THREE-PIECE PORTABLE
PLL RADIO WITH CD PLAYER - 3 BAND



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SPECIFICATIONS

* GENERAL	
Power Source	DC: 12V (1.5V "D" cell X 8) AC: 230V 50Hz
Speaker	5" 5W + 2" 5W System
Antenna	MW: Ferrite Bar Antenna FM: Telescopic Swivel Type Antenna
* MW RADIO	
Frequency Range	522 ~ 1611KHz
I.F.	450KHz
Usable Sensitivity	64dB
S/N Ratio	(74dB Input Below) 30dB
I.F. Rejection	40dB
10% T.H.D. Power Output	DC: 5.0W AC: 5.0W
Selectivity	20dB
* LW RADIO	
Frequency Range	140 ~ 281KHz
I.F.	450KHz
Usable Sensitivity	64dB
S/N Ratio	(74dB Input Below) 30dB
I.F. Rejection	40dB
10% T.H.D. Power Output	DC: 5.0W AC: 5.0W
Selectivity	20dB
* FM RADIO	
Frequency Range	87.5 ~ 108MHz
S/N Ratio	50dB Below
Image Rejection	25dB Over
10% T.H.D. Power Output	DC: 5W AC: 5W
Stereo Separation	28dB (1KHz) Over
* TAPE	
Tape Speed Deflection	+3-2%
F.F. Time	120sec
REW Time	120sec
Frequency Response	125Hz ~ 8KHz (-6dB) (Play) 125Hz ~ 8KHz (-8dB) (Record/Play)
Distortion	3%
Tape Speed	4.75cm/sec
Wow/Flutter	0.35% (WRMS) Below
Erase System	Magnetic Erase
Recording System	AC Bias 60KHz
ALC Characteristic	5dB Within
Erase Ratio	40dB
S/N Ratio	40dB Over
Output 10% T.H.D.	AC: 5W
* CD	
System	Compact Disc Digital Audio System
Disc	Compact Disc
Laser	Semiconductor Laser (=780mm)
Spindle Speed	200 R.P.M. to 500 R.P.M.
Error Correction System	Cross Interleave Reed & Solomon Code (CIRC)
Scan Velocity	1.2 ~ 1.4m/sec.
Number of Channels	2 Channel
Signal to Noise Ratio	70dB (at 1KHz)
Frequency Response	20Hz ~ 20,000Hz
Harmonic Distortion	Less than 0.1% (at 1KHz)
Dynamic Range	More than 65dB
Channel Separation	More than 55dB (at 1KHz)
Wow/Flutter	Below Measurable Limit

ADJUSTMENT LOCATIONS

This unit has been aligned at the factory and normally will not require further. As a result it is not recommened that any attempt is made to modificate any circuit. If any parts are replaced or if anyone tampers with the adjustment, realignment may be necessary.

IMPORTANT

1. Check power-source voltage.
2. Set the FUNCTION switch to radio.
3. Press the band button to choose MW, LW or FM band being aligned.
4. Set volume control to mininum unless otherwise noted.
5. Standard modulation is 1KHz at 30% for AM and 1KHz at 22.5KHz DEV. for FM.

TEST AND ADJUSTMENT POINTS

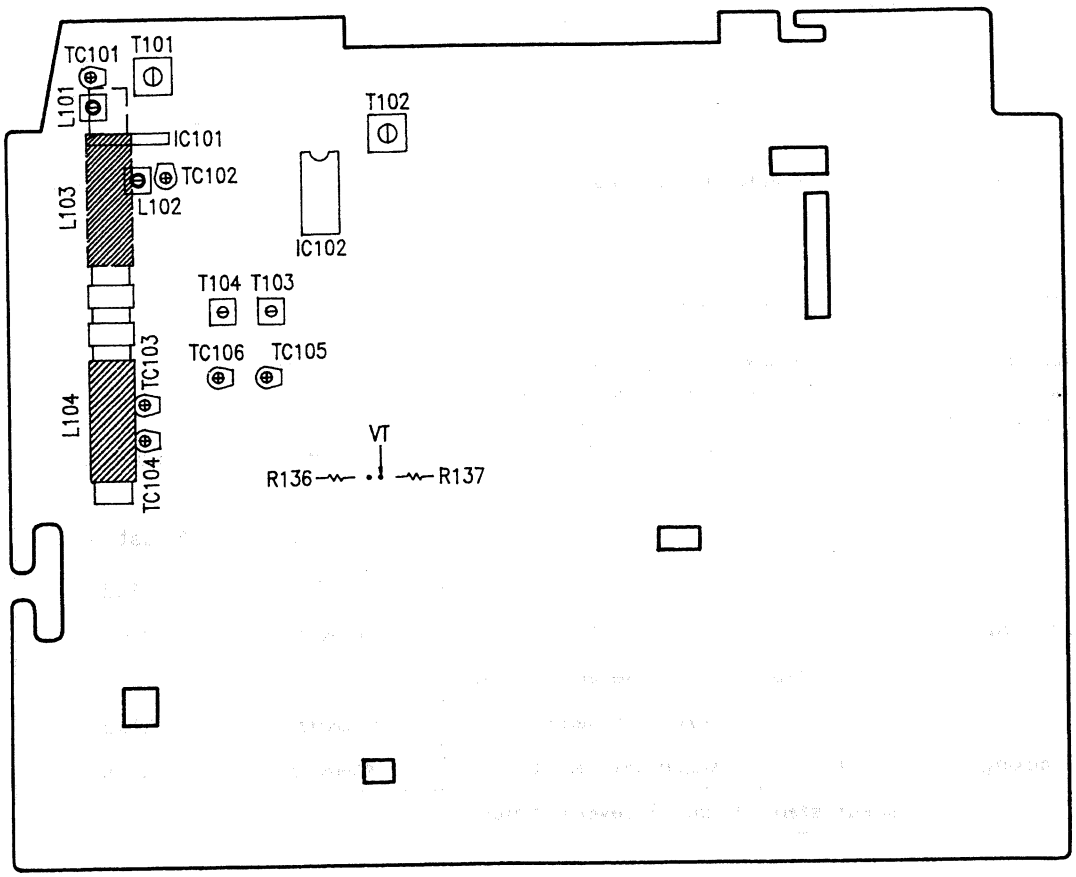


FIG. 1 : TUNER PCB BOARD (COMPONENT SIDE VIEW)

L101 : FM RF COIL
L102 : FM OSC COIL
L103 : MW ANT. COIL
L104 : LW ANT. COIL
T101 : FM IFT.
T102 : AM IFT.
T103 : MW OSC COIL
T104 : LW OSC COIL

TC101 : FM HIGH SENS.
TC102 : FM HIGH COVER
TC103 : MW HIGH SENS.
TC104 : LW HIGH SENS.
TC105 : MW HIGH COVER
TC106 : LW HIGH COVER

ALIGNMENT PROCEDURES

1. MW IF ADJUSTMENT

IF Genescope : connect the input to C142(−) or C192(−), the output to L103. And adjust for the IF wave form of Genescope to be maximum.

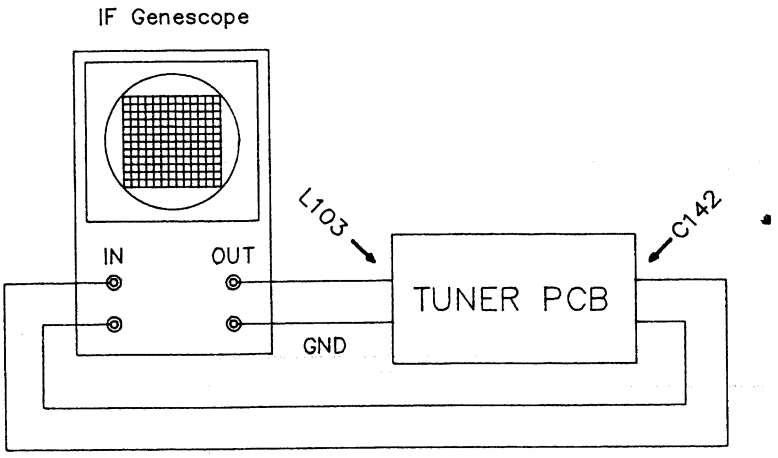


FIG. 2 : MW IF Adjustment Connection Diagram

IF	Adjust for	Adjustment
450KHz	Maximum	T102

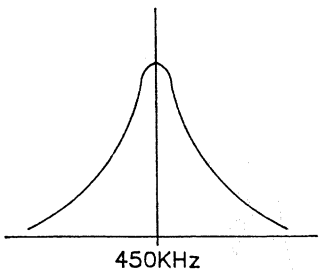


FIG. 3 : MW IF Curve

2. MW RF (COVERAGE & TRACKING) ADJUSTMENT

Signal Generator : Connect the MW antenna coil through the loop antenna.
AC Voltmeter : Connect to J701 or J751 in the MAIN PCB.
DC Voltmeter : Connect to R137 and GND in the TUNER PCB.
Adjust for the indication of AC voltmeter and the waveform of oscilloscope to be maximum.

Step	Item	Preset No	VT Adjust for	SG Output	Adjustment
1	Coverage	06	1.5V	522KHz	T103
2		10	7.8V	1611KHz	TC105
3		Repeat steps 1 and 2 several times.			
4	Tracking	07	Maximum sensitivity	612KHz	L103
5		09	Maximum sensitivity	1404KHz	TC103
6		Repeat steps 4 and 5 several times.			

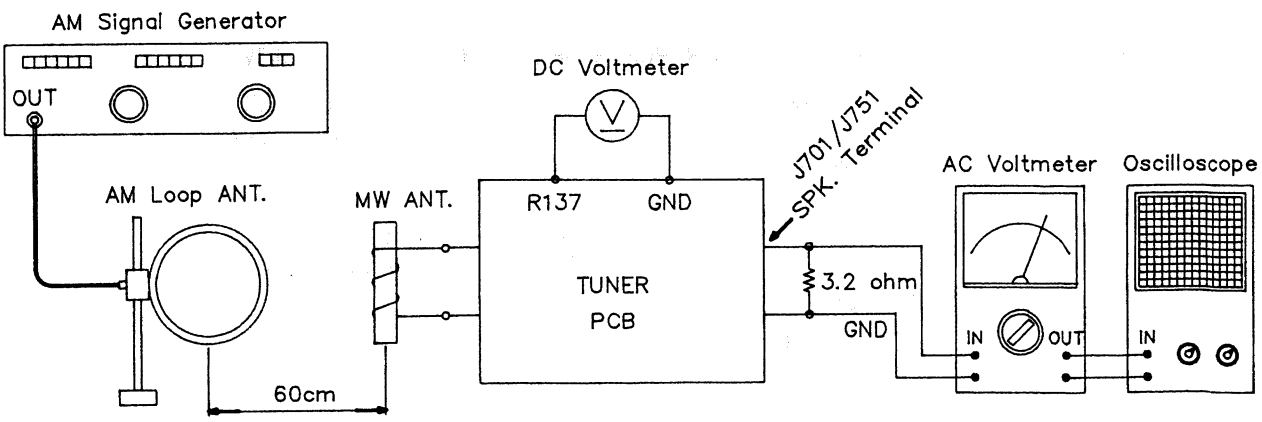


FIG. 4 : MW RF Adjustment Connection Diagram

3. LW RF (COVERAGE & TRACKING) ADJUSTMENT

Signal Generator : Connect the LW antenna coil through the loop antenna.
AC Voltmeter : Connect to J701 or J751 in the MAIN PCB.
DC Voltmeter : Connect to R137 and GND in the TUNER PCB.
Adjust for the indication of AC voltmeter and the waveform of oscilloscope to be maximum.

Step	Item	Preset No	VT Adjust for	SG Output	Adjustment
1	Coverage	11	1.4V	140KHz	T104
2		15	5.7V	281KHz	TC106
3		Repeat steps 1 and 2 several times.			
4	Tracking	12	Maximum sensitivity	164KHz	L104
5		14	Maximum sensitivity	254KHz	TC104
6		Repeat steps 4 and 5 several times.			

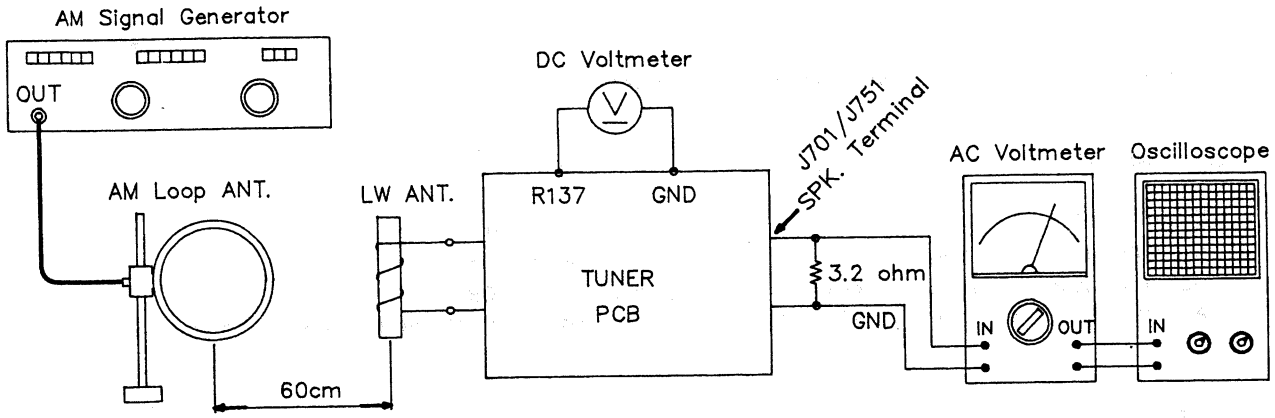


FIG. 5 LW RF Adjustment Connection Diagram

4. FM IF ADJUSTMENT

IF Genescope : connect the input to C142(−) or C192(−), the output to body of IC101.
And adjust for the IF wave form of Genescope to be maximum.

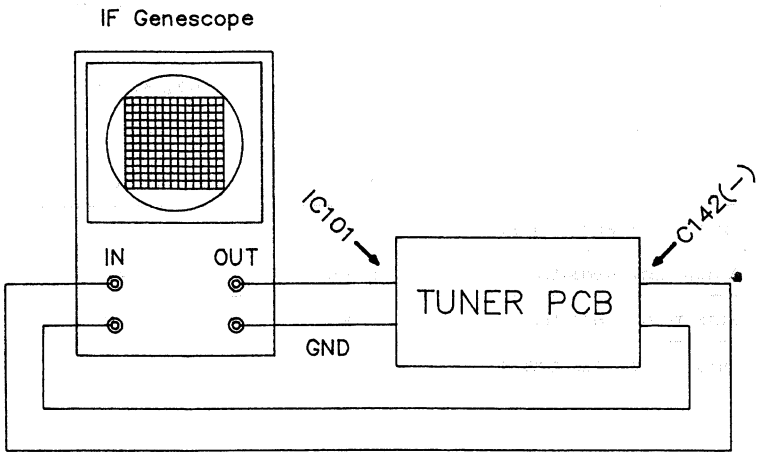


FIG. 5 : FM IF Adjustment Connection Diagram

IF	Adjust for	Adjustment
10.7MHz	Maximum	T101

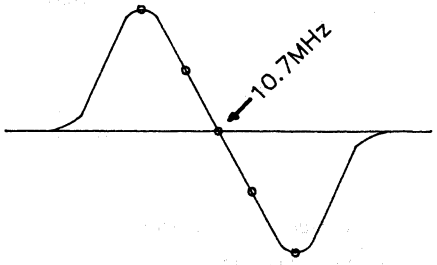


FIG. 6 : FM IF Curve

5. FM RF (COVERAGE & TRACKING) ADJUSTMENT

Signal Generator : Connect to FM antenna terminal with GND.
AC Voltmeter : Connect to JK701 or JK702 in the MAIN PCB.
DC Voltmeter : Connect to R137 and GND in the TUNER PCB.
Adjust for the indication of AC voltmeter and the waveform of oscilloscope to be maximum.

Step	Item	Preset No	VT Adjust for	SG Output	Adjustment
1	Coverage	01	2.0V	87.5MHz	L102
2		05	7.5V	108MHz	TC102
3		Repeat steps 1 and 2 several times.			
4	Tracking	02	Maximum sensitivity	90.1MHz	L101
5		04	Maximum sensitivity	105.5MHz	TC101
6		Repeat steps 4 and 5 several times.			

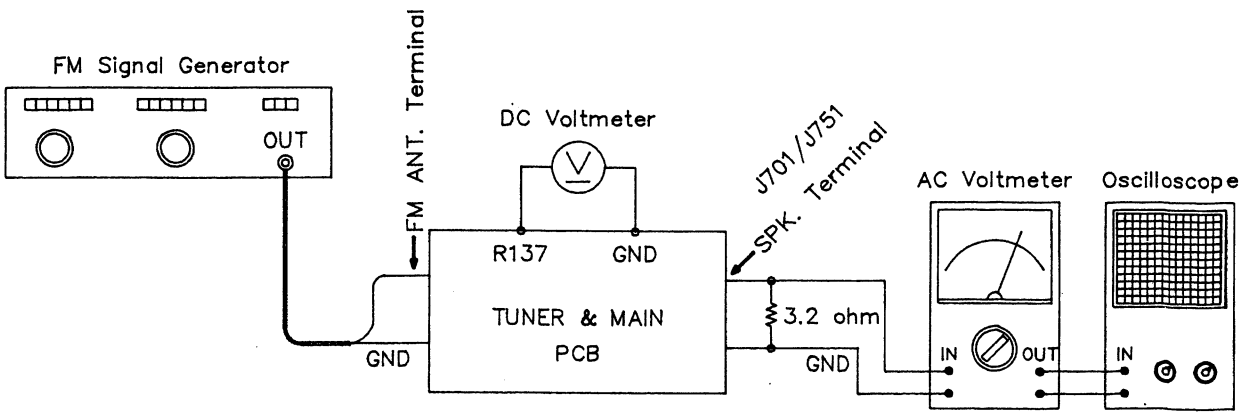


FIG. 7 : FM RF Adjustment Connection Diagram

ADJUSTMENT FOR CASSETTE DECK PART

1. AZIMUTH ADJUSTMENT

Deck Mode	Test Tape	Test Point	Adjustment	Adjust for
Playback	MTT-113N (8KHz)	J701, J751 (Speaker Output)	Azimuth adjustment screw	R/L-ch maximum

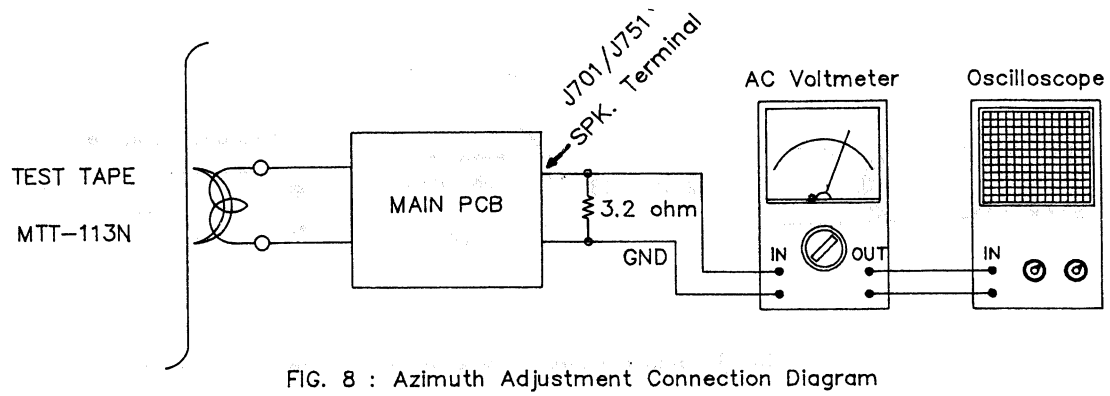


FIG. 8 : Azimuth Adjustment Connection Diagram

2. MOTOR SPEED ADJUSTMENT

Deck Mode	Test Tape	Test Point	Adjustment	Adjust for
Playback	MTT-111 (3KHz)	J701, J751 (Speaker Output)	VR401	3KHz ± 30Hz
Playback	MTT-111 (3KHz)	J701, J751	HIGH-SPEED PUSH SW. ON	4.5 ~ 5.4KHz

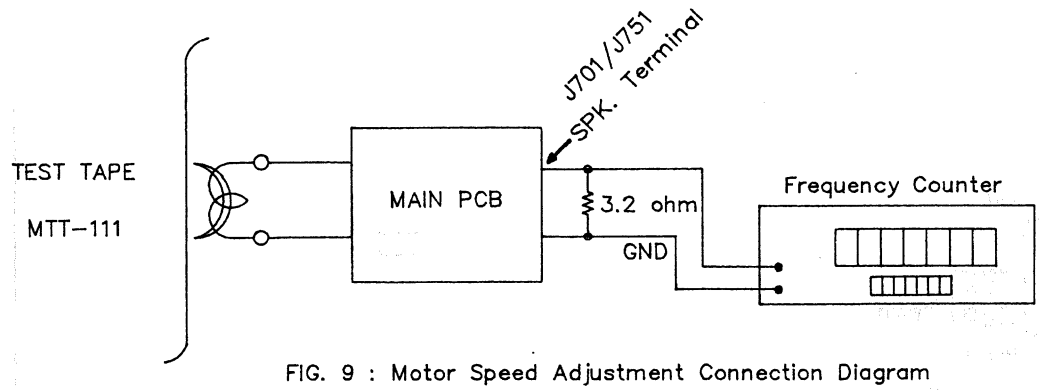


FIG. 9 : Motor Speed Adjustment Connection Diagram

2. BIAS FREQUENCY ADJUSTMENT

Deck Mode	Test Tape	Test Point	Adjustment	Adjust for
Recording	Blank Tape	CN402 (Pin 1 or 4)	T401	60KHz ± 2KHz

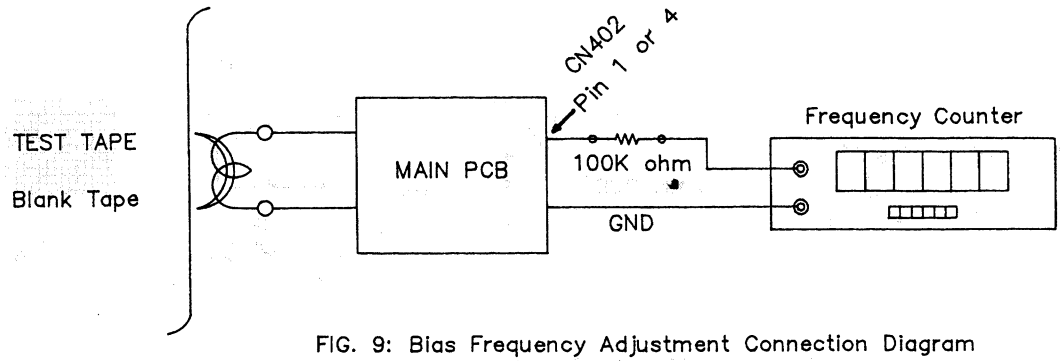
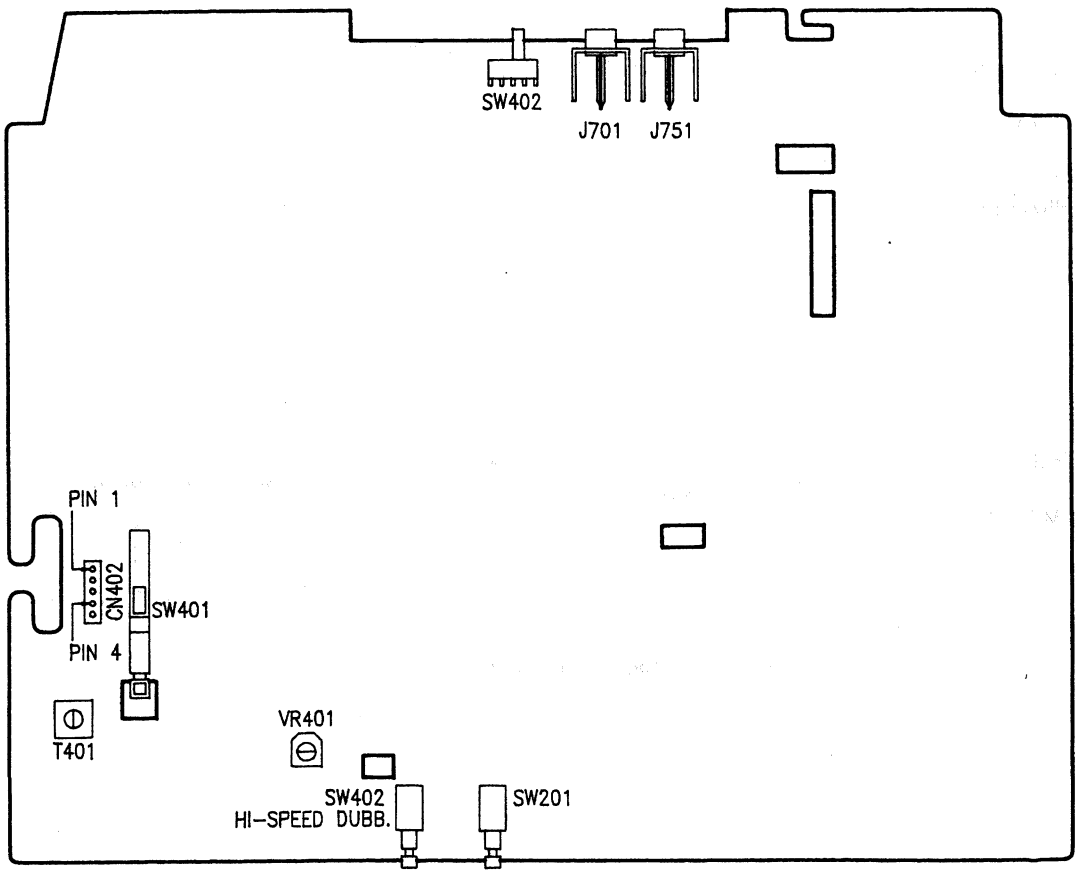


FIG. 9: Bias Frequency Adjustment Connection Diagram



CD ALIGNMENT PROCEDURES

AFTER REPLACING THE PICK UP, CD ASSEMBLY OR ANY OTHER CD RELATED COMPONENT, THE FOLLOWING ADJUSTMENTS (1–4) MUST BE PERFORMED.

*** ADJUSTMENT SHOULD BE MADE AS SHOWN IN THE CHART ABOVE.

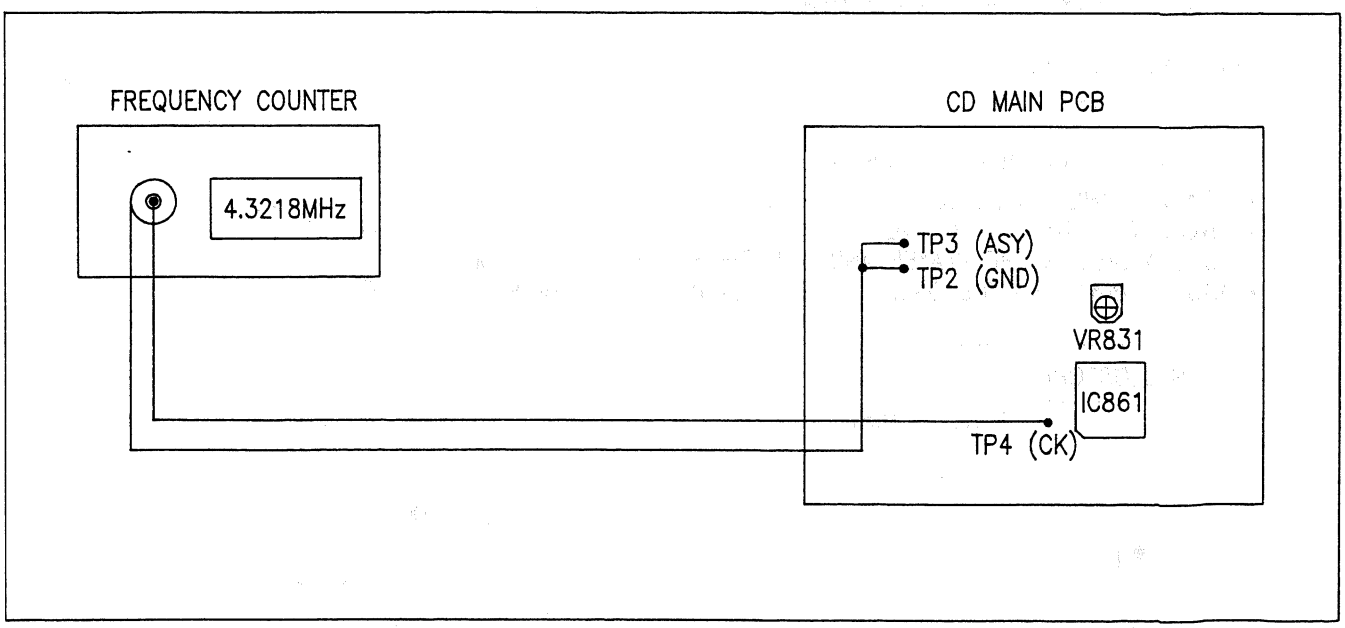
NO.	ADJUSTMENT	REF. NO.	PRESET POSITION
1	PLL (VCO)	VR831	CENTER
2	FOCUS ERROR OFFSET	VR812	CENTER
3	TRACKING ERROR BALANCE	VR811	CENTER
4	TRACKING ERROR GAIN	VR813	CENTER

1. PLL ADJUSTMENT

DO NOT PERFORM THIS ADJUSTMENT UNLESS THE PARTS OF PLL BLOCK HAVE BEEN CHANGED.

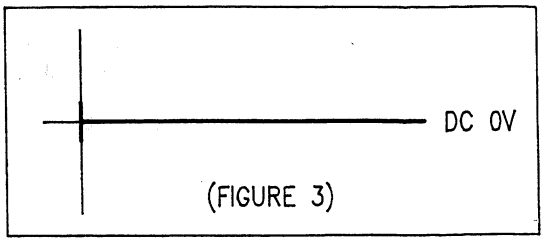
1) INSTRUMENT TO BE USED
   * FREQUENCY COUNTER

2) ADJUSTMENT PROCEDURE (FIGURE 1)
   * CONNECT THE FREQUENCY COUNTER TO TP4 (CK) AND TP2 (GND).
   * SHORT TP3 (ASY) TO TP2 (GND).
   * ADJUST VR831 SO THAT FREQUENCY COUNTER BECOMES 4.3218MHz.
   * REMOVE THE SHORT BETWEEN TP3 AND TP2 AFTER THE ADJUSTMENT.



(FIGURE 1)

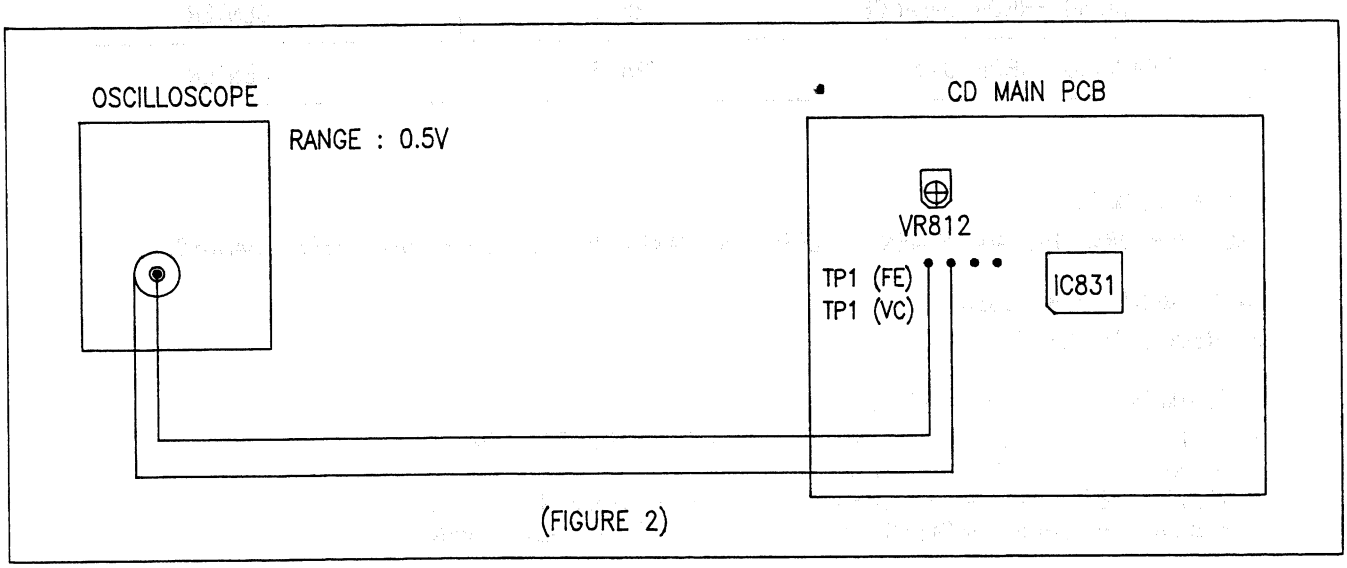
2. FOCUS ERROR OFFSET ADJUSTMENT



(FIGURE 3)

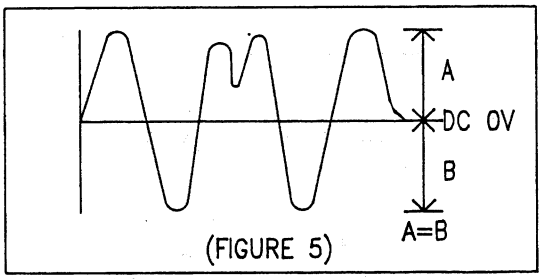
1) INSTRUMENT TO BE USED
   * OSCILLOSCOPE

2) ADJUSTMENT PROCEDURE (FIGURE 2)
   * CONNECT THE OSCILLOSCOPE TO TP1 (FE) AND TP1 (VC).
   * LOAD A DISC IN THE PLAYER AND SET THE PLAYER TO STOP MODE.
   * ADJUST VR812 SO THAT THE DC VALUE OF OSCILLOSCOPE BECOMES ZERO AS SHOWN IN (FIGURE 3).



(FIGURE 2)

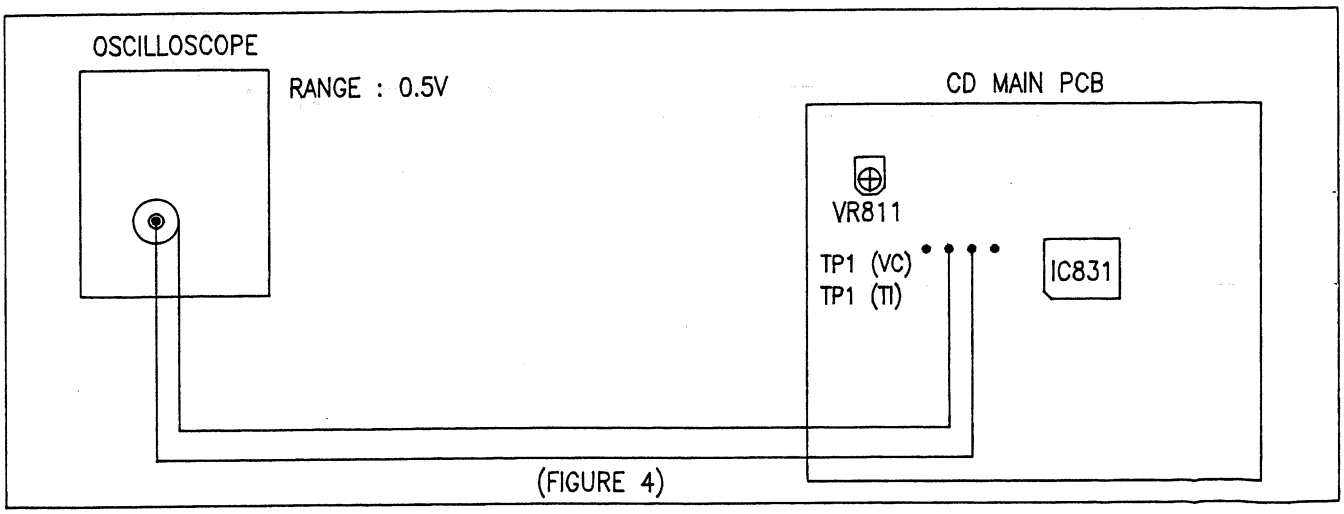
3. TRACKING ERROR BALANCE ADJUSTMENT



(FIGURE 5)

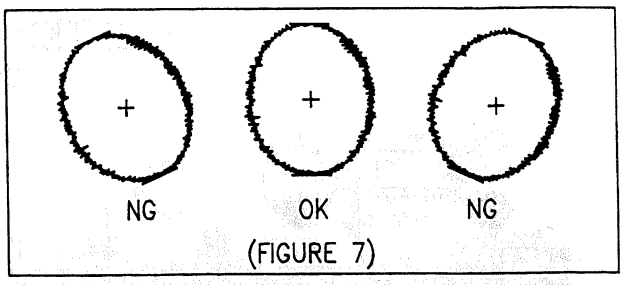
1) INSTRUMENT TO BE USED
   * OSCILLOSCOPE

2) ADJUSTMENT PROCEDURE (FIGURE 4)
   * CONNECT THE OSCILLOSCOPE TO TP1 (TI) AND TP1 (VC).
   * SHORT TP1 (TD) TO TP1 (VC).
   * LOAD A DISC IN THE PLAYER AND SET THE PLAYER TO PLAY MODE.
   * ADJUST VR811 SO THE OSCILLOSCOPE READING IS AS SHOWN IN FIGURE 5.



(FIGURE 4)

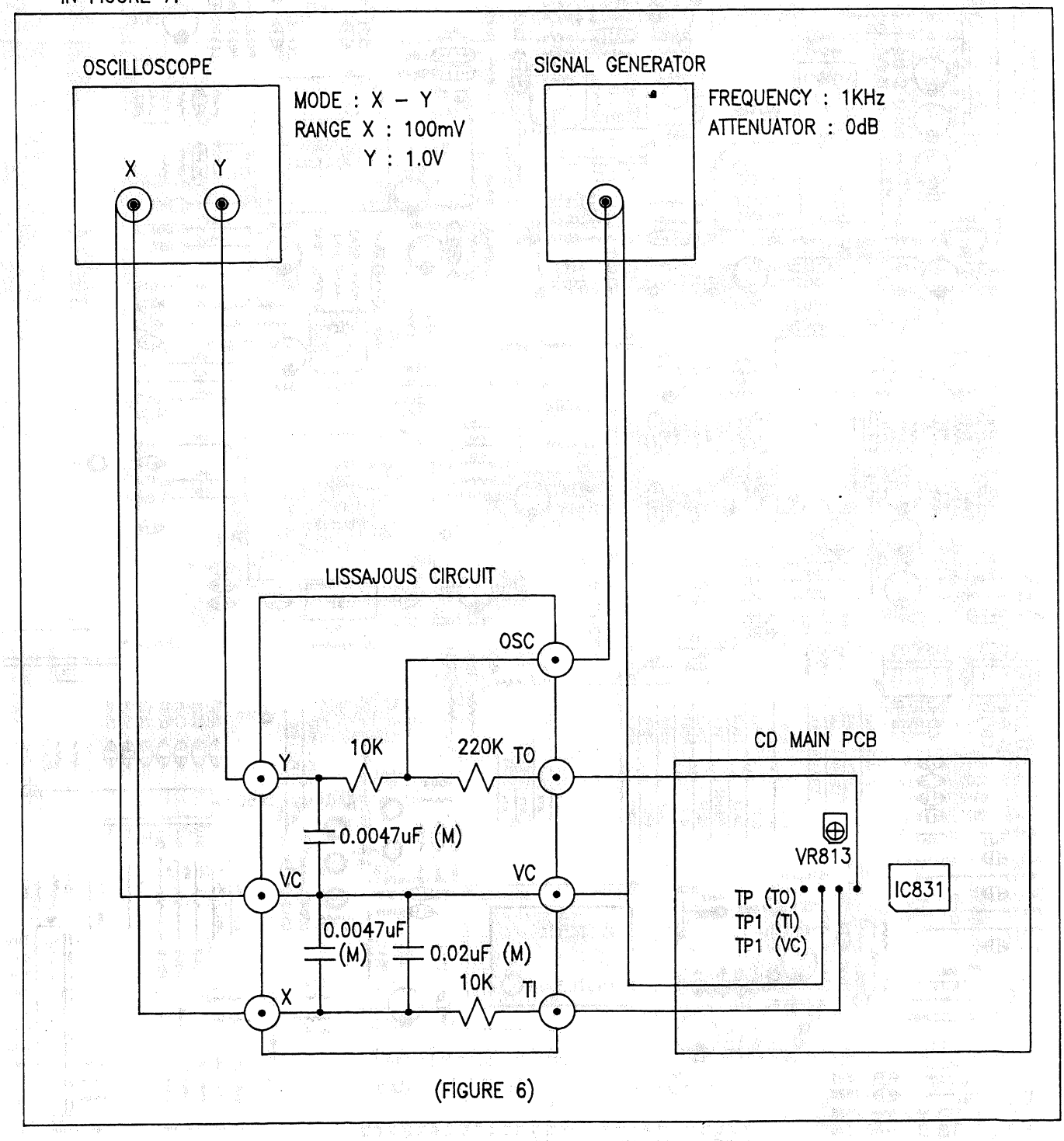
4. TRACKING ERROR GAIN ADJUSTMENT



(FIGURE 7)

1) INSTRUCTIONS TO BE USED
   * SIGNAL GENERATOR * OSCILLOSCOPE

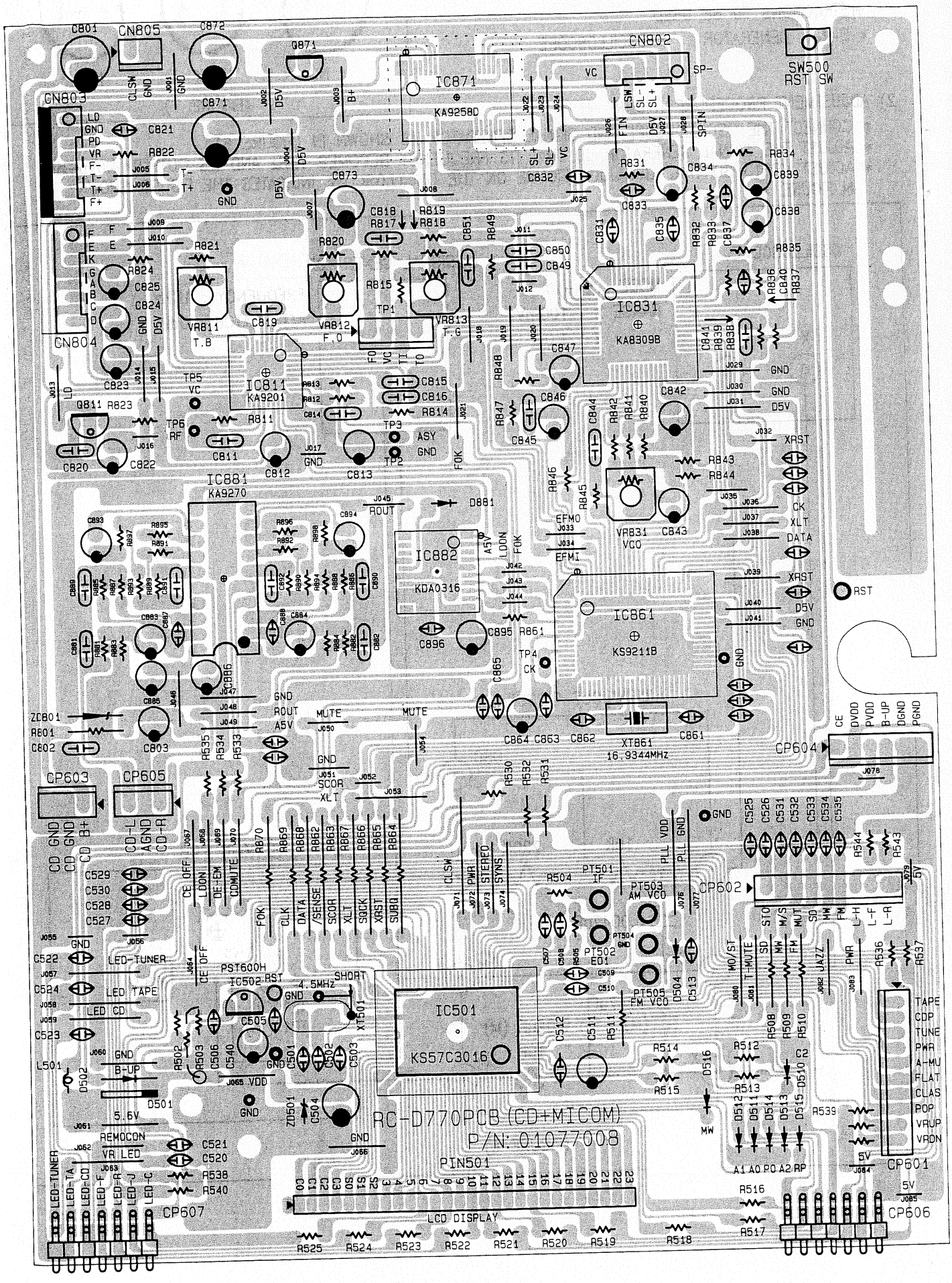
2) ADJUSTMENT PROCEDURE (FIGURE 6)
   * CONNECT THE OSCILLOSCOPE AND SIGNAL GENERATOR AS SHOWN IN (FIGURE 6).
   * ADJUST THE SIGNAL GENERATOR SO THAT ITS FREQUENCY BECOMES 1KHz AND ITS OUTPUT 4.0Vp-p.
   * ADJUST VR813 SO THAT LISSAJOUS FIGURE ON THE OSCILLOSCOPE INDICATES THE FIGURE SHOWN IN FIGURE 7.



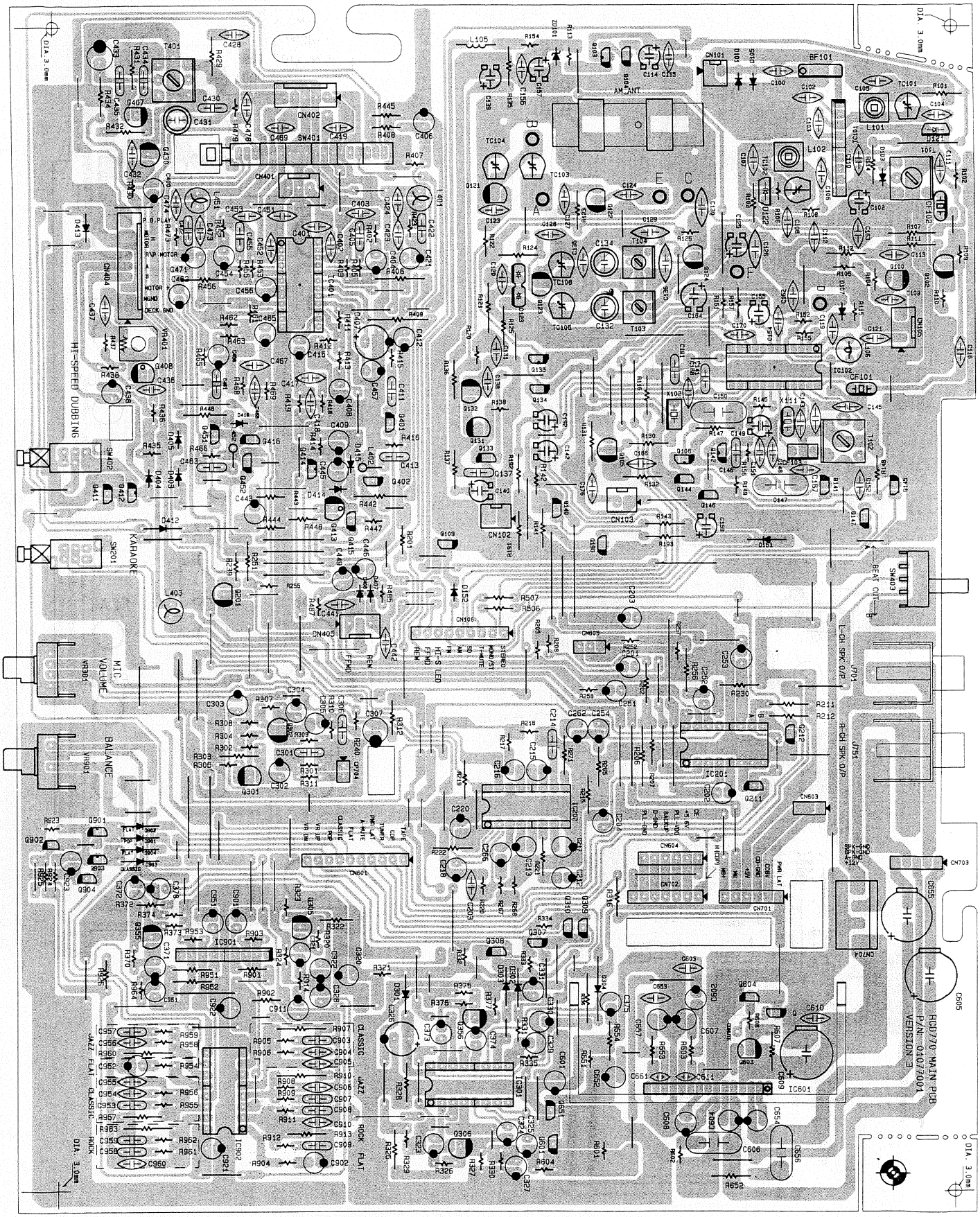
(FIGURE 6)

PRINTED CIRCUIT BOARDS

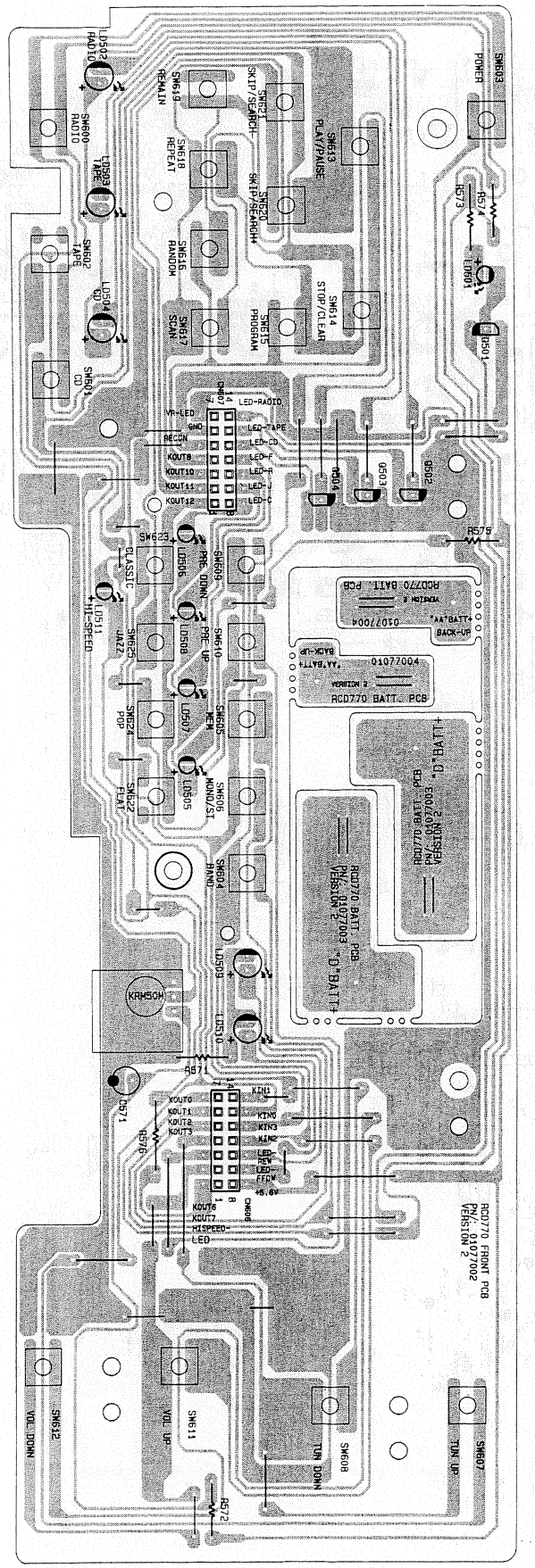
CD MAIN PCB

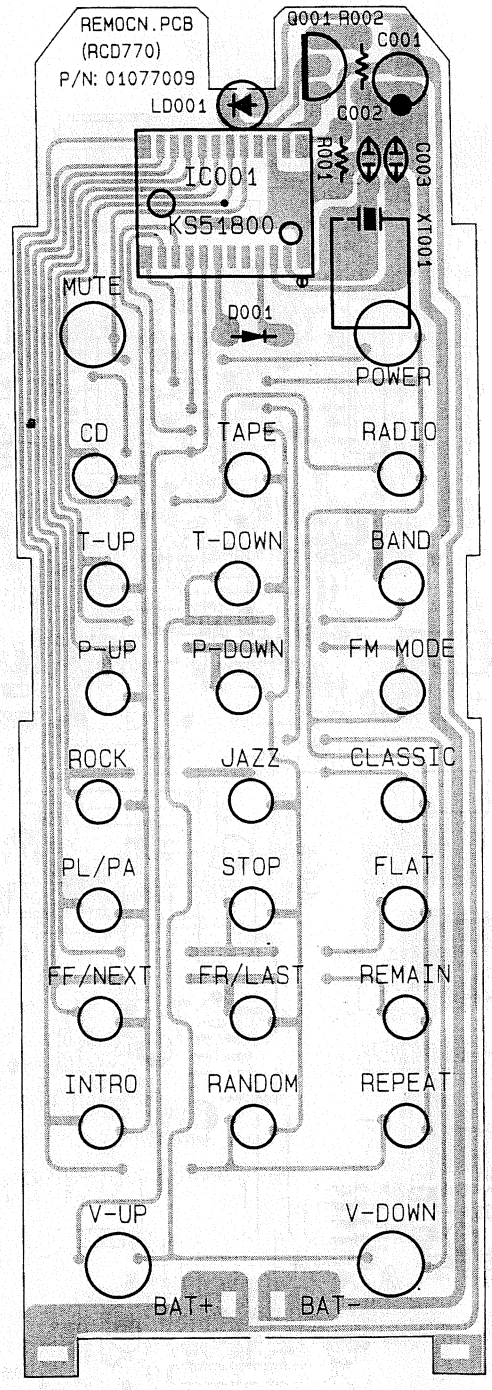


MAIN PCB

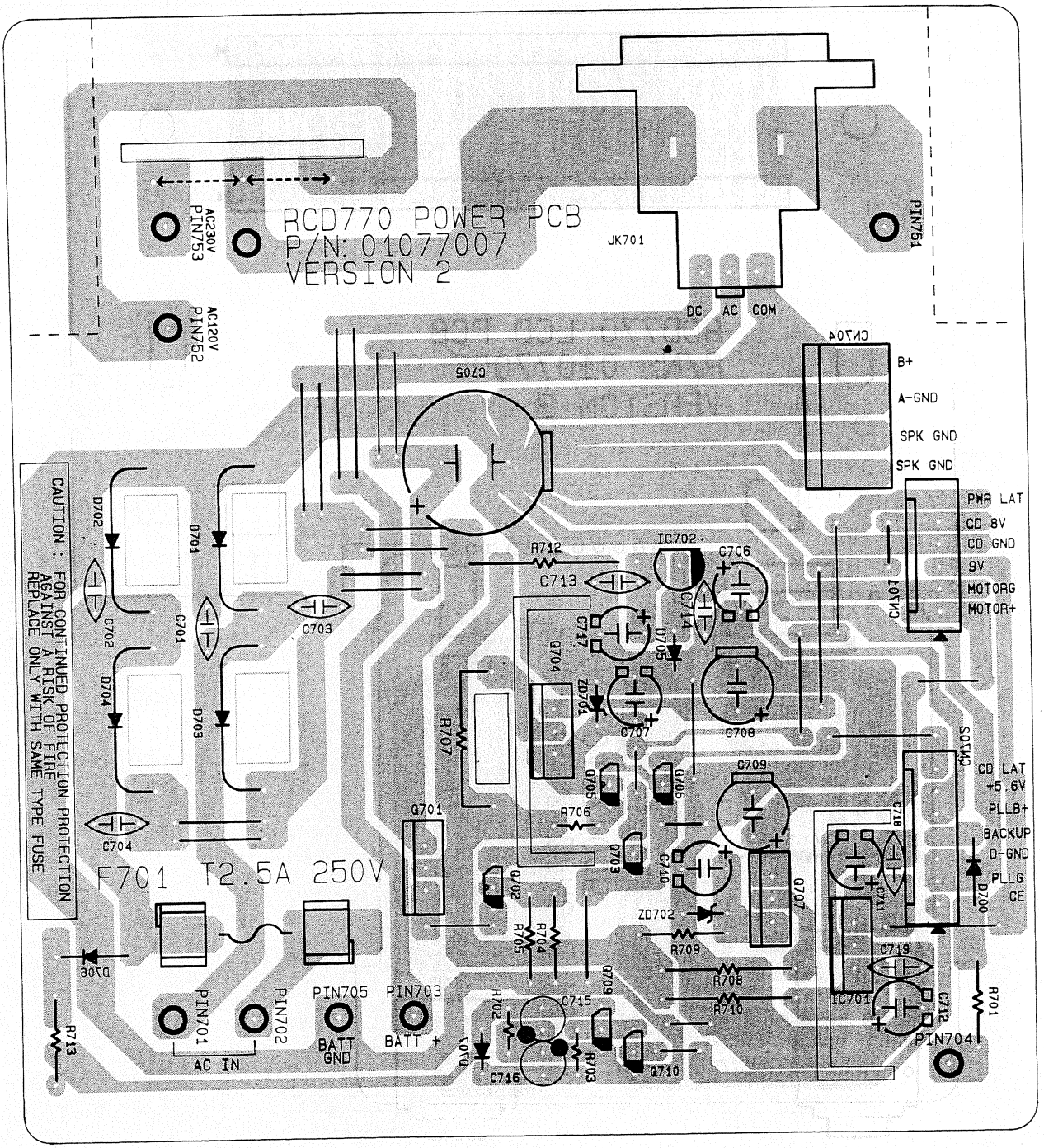

HCD770 MAIN PCB
P/N: 01077001
VERSION 3
HI-SPEED DUBBING
KARAOKE
MIC VOLUME
BALANCE
AM ANT
BEAT CUT
L-CH SPK O/P
R-CH SPK O/P
DIA. 3.0mm

FRONT PCB/BATTERY PCB 1/BATTERY PCB 2/ REMOTE CONTROL PCB

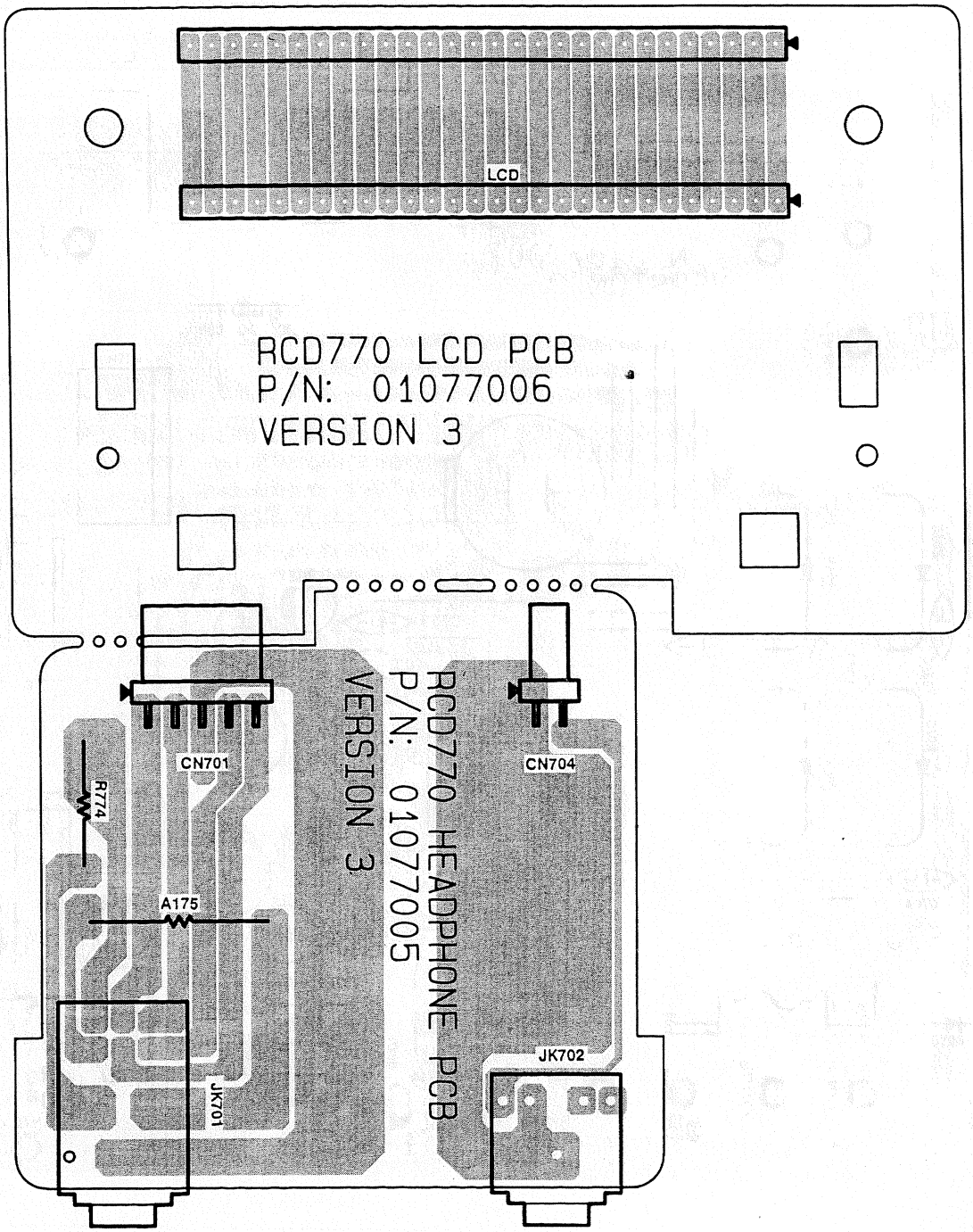




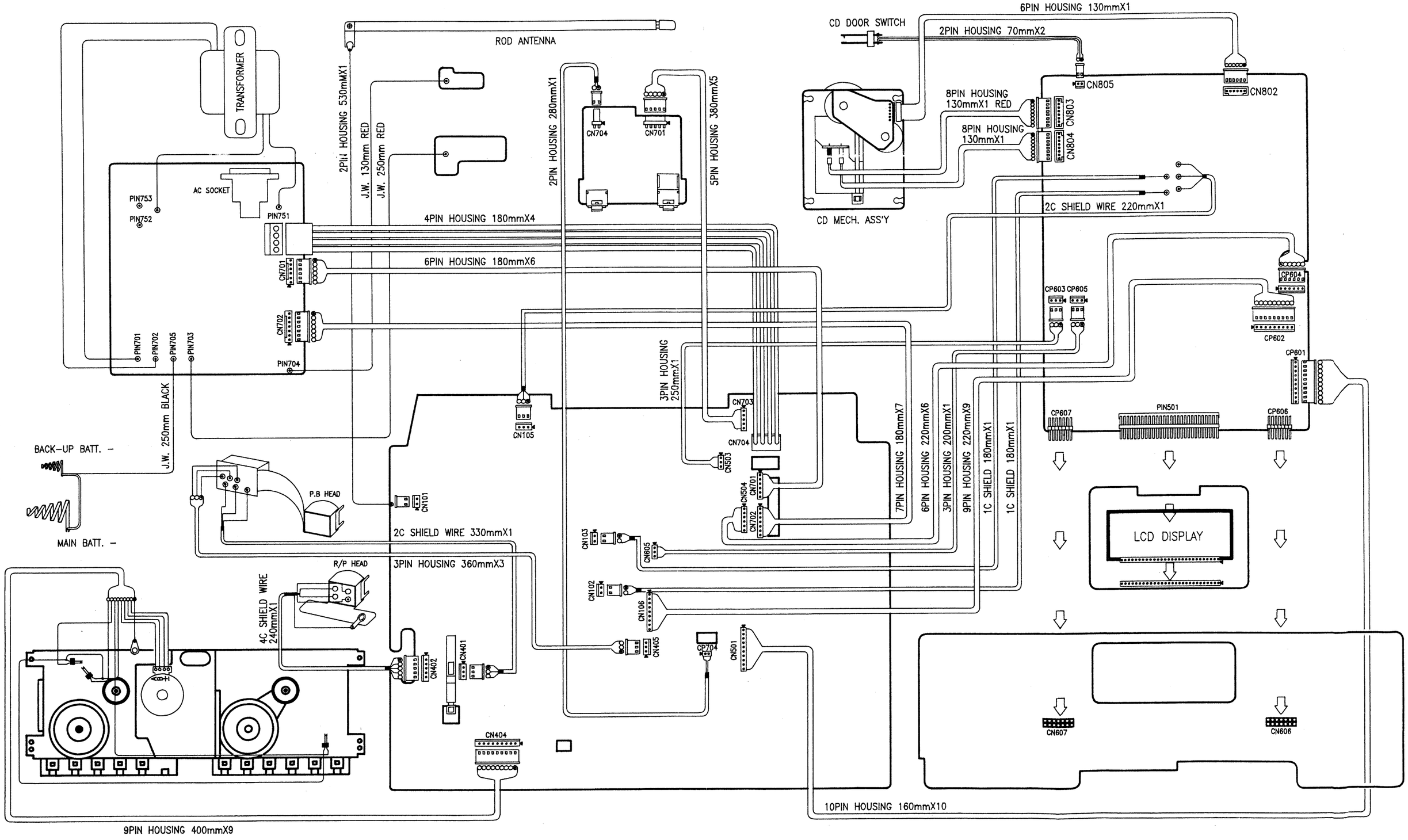
POWER PCB


RCD770 POWER PCB
P/N: 01077007
VERSION 2
JK701
DC AC COM
PIN751
AC230V PIN753
AC120V PIN752
CN704
B+
A-GND
SPK GND
SPK GND
CN702
PWR LAT
CD 8V
CD GND
9V
MOTORG
MOTOR+
CN705
CD LAT
+5.6V
PLLB+
BACKUP
D-GND
PLLG
CE
CAUTION : FOR CONTINUED PROTECTION PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE FUSE
F701 T2.5A 250V
PIN701
AC IN
PIN702
PIN705
BATT GND
PIN703
BATT +
PIN704
IC702
IC701
C705
C706
C707
C708
C709
C710
C711
C712
C713
C714
C715
C716
C717
C718
C719
D700
D701
D702
D703
D704
D705
D706
D707
D708
D709
D710
Q701
Q702
Q703
Q704
Q705
Q706
Q707
Q709
Q710
R701
R702
R703
R704
R705
R706
R707
R708
R709
R710
R712
R713
ZD701
ZD702

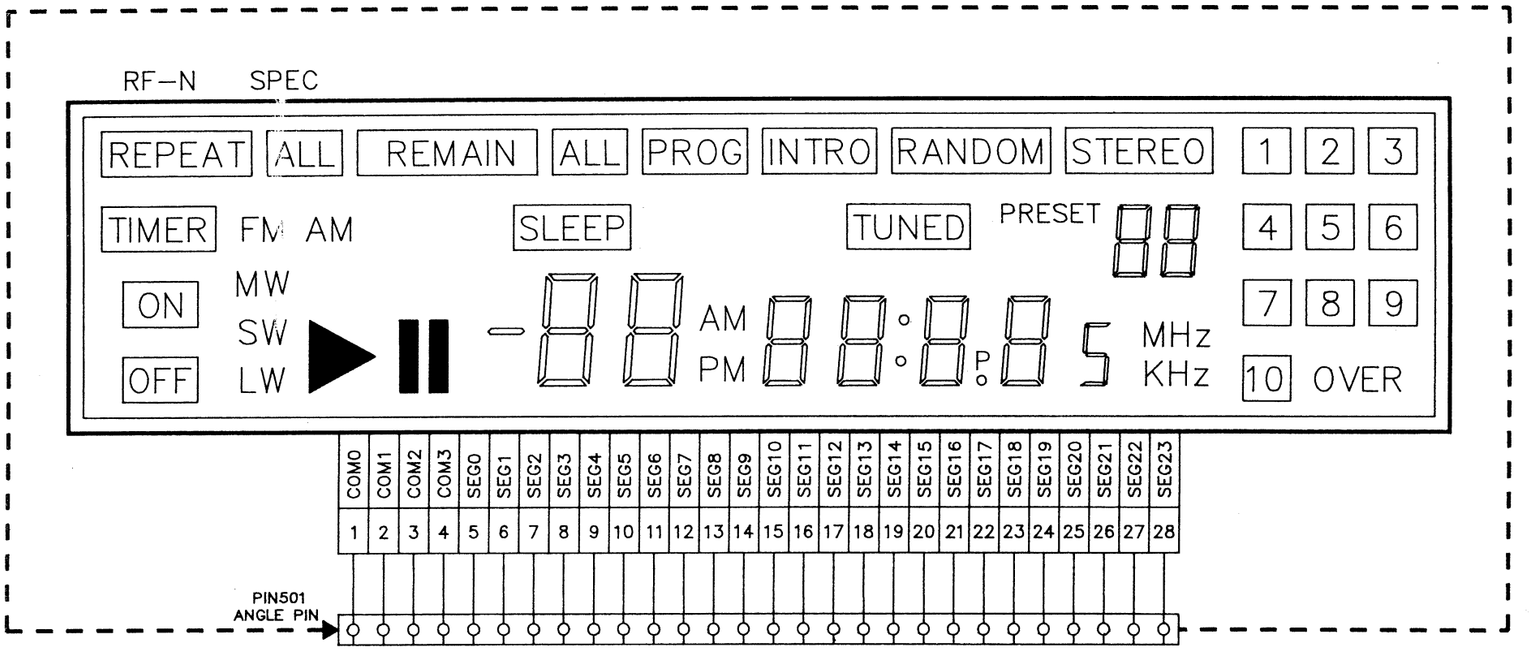
HEADPHONE & MIC PCB/LCD PCB



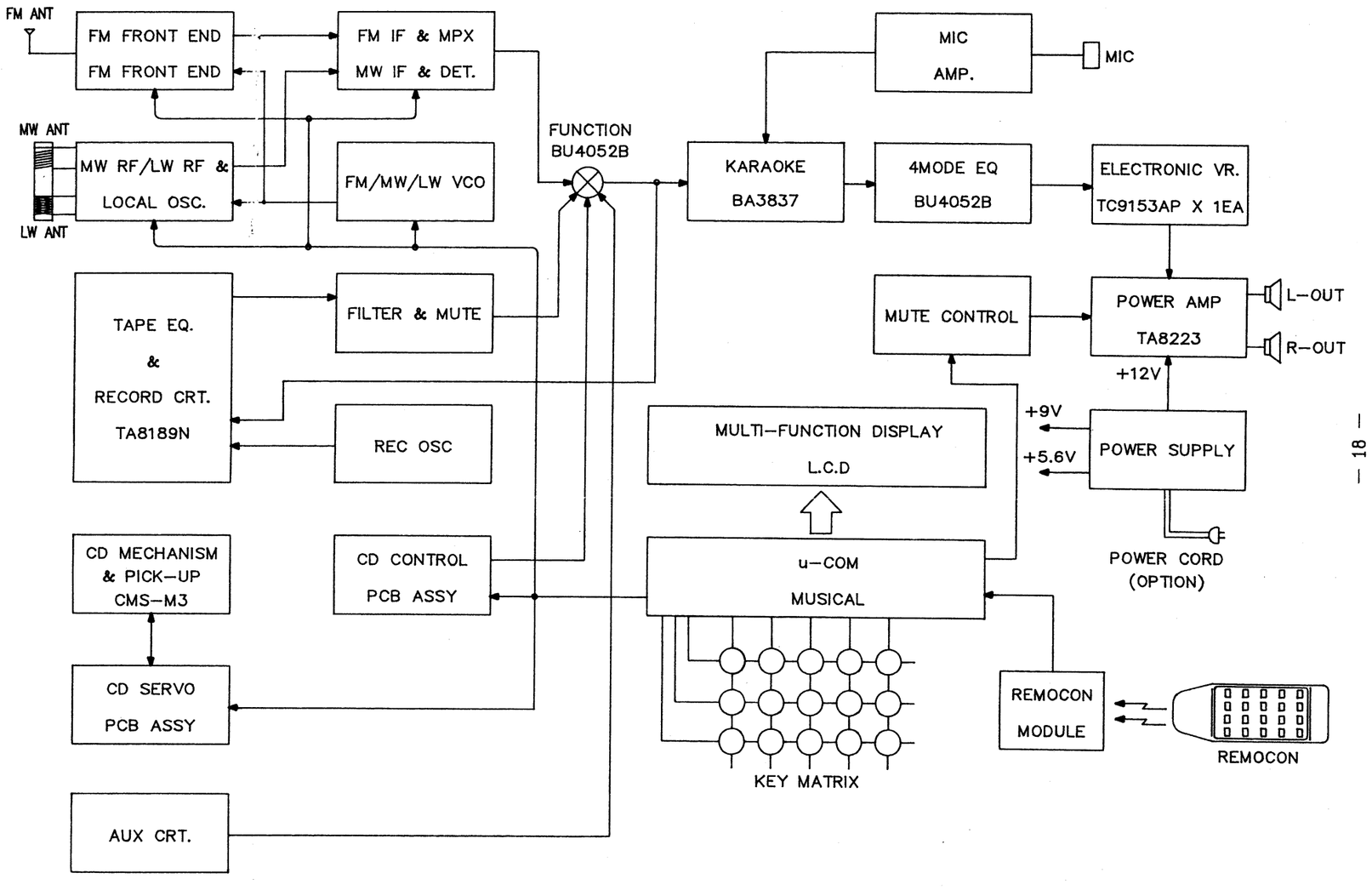
WIRING DIAGRAM



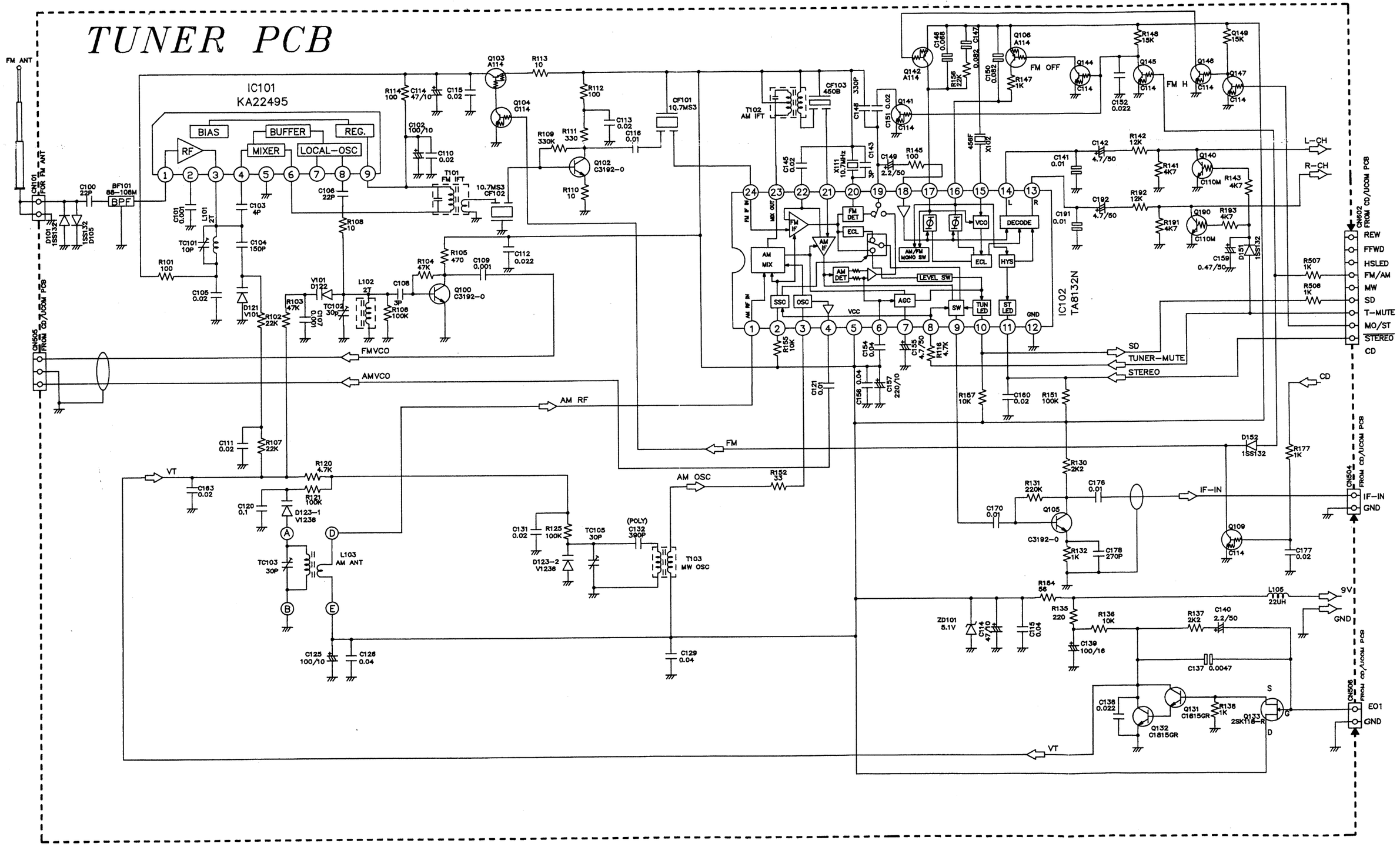
SCHEMATIC DIAGRAM

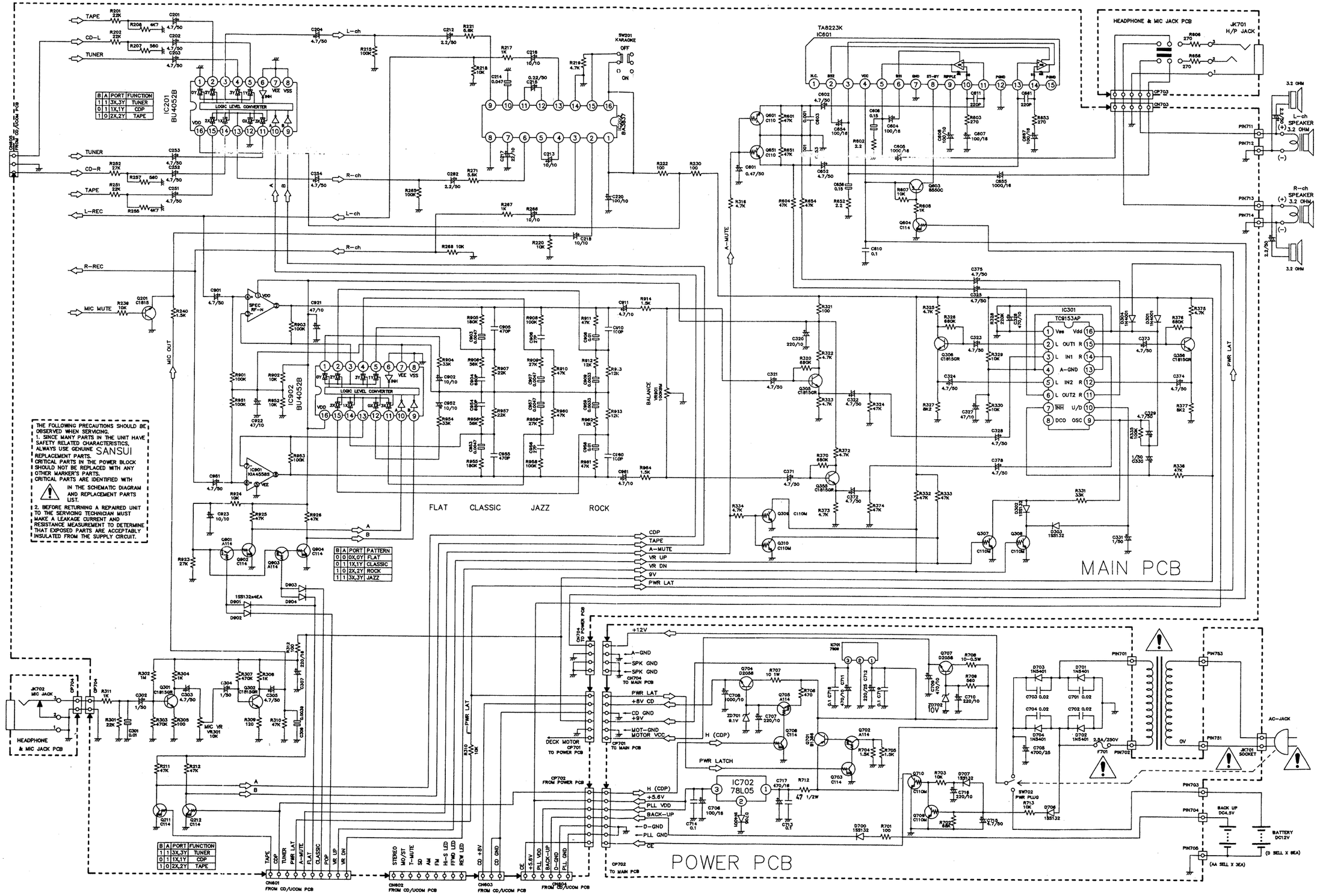


BLOCK DIAGRAM



TUNER PCB

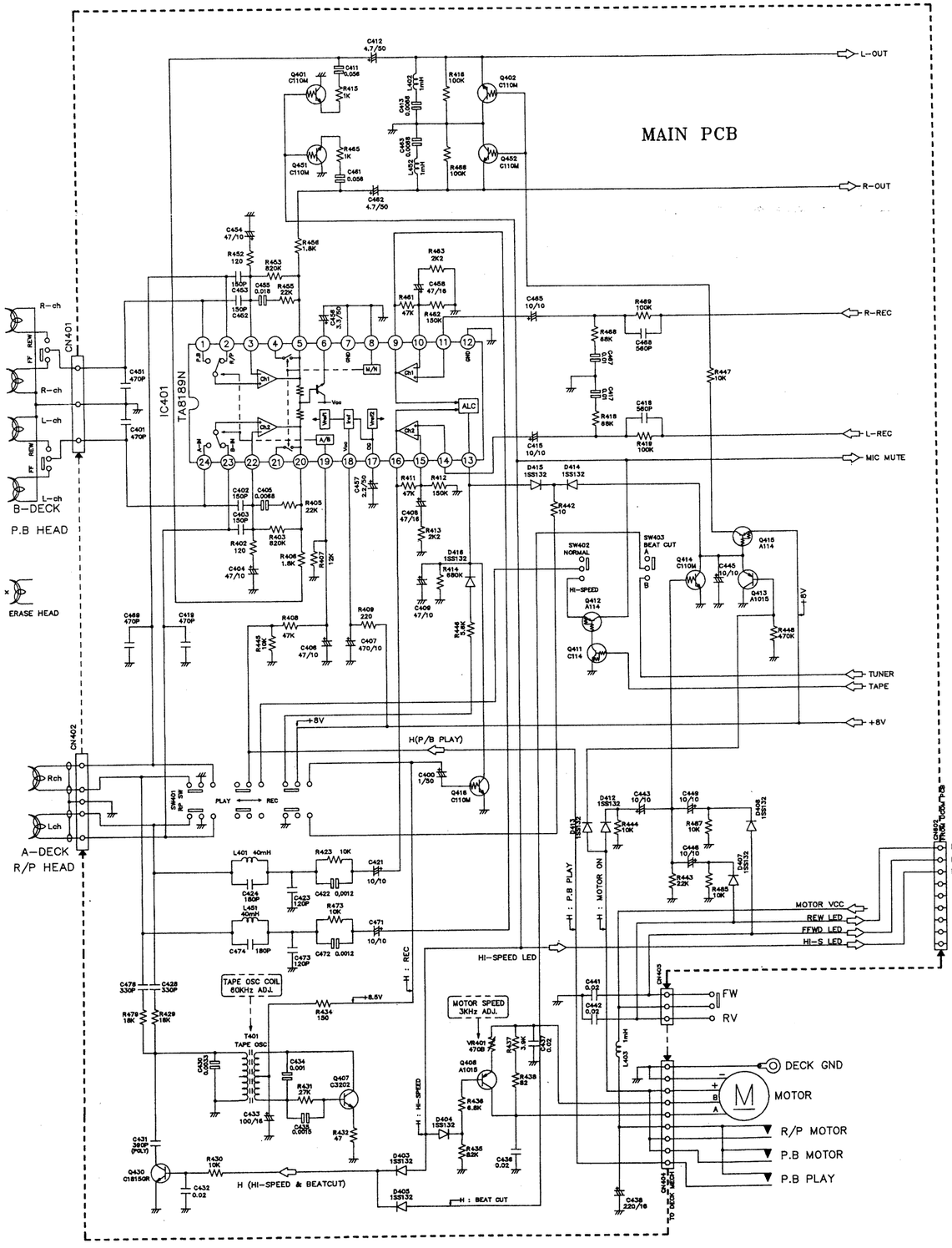

FM ANT
CN101
FOR FM ANT
C100 22P
BF101 88-108M
BPF
D101 1SS132
D105 1SS132
IC101
KA22495
BIAS
BUFFER
REG.
RF
MIXER
LOCAL-OSC
C101 0.001
L101 2T
TC101 10P
C103 4P
C104 150P
R101 100
C105 0.02
D121 V101
R102 22K
R103 47K
V101 D122
TC102 30P
L102 2T
C107 0.001
C108 3P
R106 100K
R104 47K
Q100 C3192-O
R105 470
C109 0.001
C112 0.022
R108 10
C106 22P
T101 FM IFT
10.7MS3 CF102
R114 100
C114 47/10
C115 0.02
Q103 A114
R113 10
Q104 C114
R112 100
C102 100/10
C110 0.02
R109 330K
R111 330
C113 0.02
C116 0.01
Q102 C3192-O
R110 10
CF101 10.7MS3
CN505
FROM CD/UCOM PCB
FMVCO
AMVCO
AM RF
FM
VT
C111 0.02
R107 22K
R120 4.7K
R121 100K
C120 0.1
D123-1 V1236
C163 0.02
TC103 30P
L103 AM ANT
C131 0.02
R125 100K
D123-2 V1236
TC105 30P
(POLY) C132 390P
T103 MW OSC
AM OSC
R152 33
C125 100/10
C126 0.04
C129 0.04
T102 AM IFT
CF103 450B
330P
C148
C151 0.02
Q141 C114
C145 0.02
X111 10.7MHz
C143 3P
C149 2.2/50
R145 100
456F
X102
Q142 A114
C146 0.068
R156 22K
C150 0.082
Q106 A114
R147 1K
FM OFF
Q144 C114
R148 15K
Q145 C114
C152 0.022
FM H
Q146 C114
Q149 15K
Q147 C114
C142 4.7/50
R142 12K
R141 4K7
Q140 C110M
R143 4K7
L-CH
R-CH
C141 0.01
C192 4.7/50
R192 12K
R191 4K7
Q190 C110M
R193 4K7
C191 0.01
C159 0.47/50
D151 1SS132
R507 1K
R508 1K
CN602
FROM CD/UCOM PCB
REW
FFWD
HSLED
FM/AM
MW
SD
T-MUTE
MO/ST
STEREO
CD
IC102
TA8132N
FM IF IN
MIX OUT
FM IF
FM DET
ECL
AM IF
AM MIX
AM DET
AM/FM MONO SW
LEVEL SW
VCO
DECODE
HYS
L
R
SSC
OSC
VCC
AGC
SW
TUN LED
ST LED
GND
AM RF IN
R155 10K
C154 0.04
C155 4.7/50
R116 4.7K
C121 0.01
C156 0.04
C157 220/10
R157 10K
C160 0.02
R151 100K
SD
TUNER-MUTE
STEREO
CD
D152 1SS132
R177 1K
CN504
FROM CD/UCOM PCB
IF-IN
GND
R130 2K2
R131 220K
C176 0.01
C170 0.01
Q105 C3192-O
R132 1K
C178 270P
Q109 C114
C177 0.02
R164 56
L105 22UH
9V
GND
ZD101 5.1V
C114 470
C115 0.04
R135 220
R136 10K
C139 100/16
R137 2K2
C140 2.2/50
C137 0.0047
CN506
FROM CD/UCOM PCB
EO1
GND
C138 0.022
Q131 C1815GR
Q132 C1815GR
R138 1K
Q133 2SK118-R
S
G
D
VT

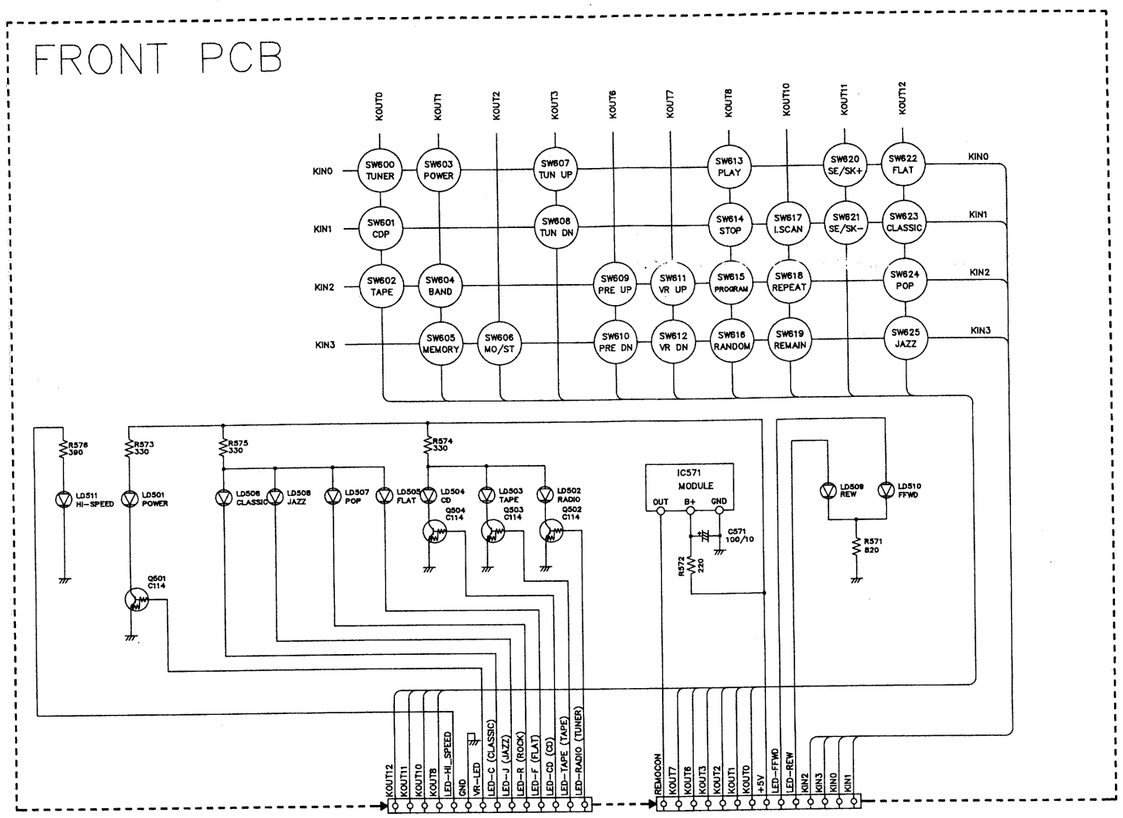


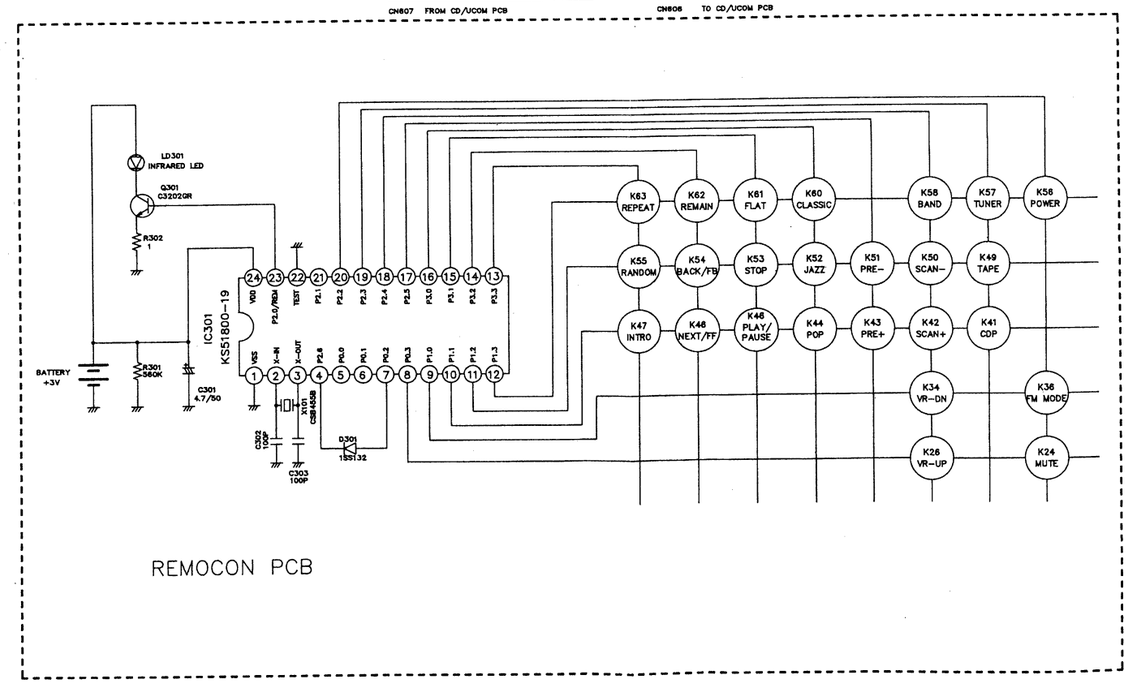
B	A	PORT	FUNCTION
1	1	3X,3Y	TUNER
0	1	1X,1Y	CDP
1	0	2X,2Y	TAPE

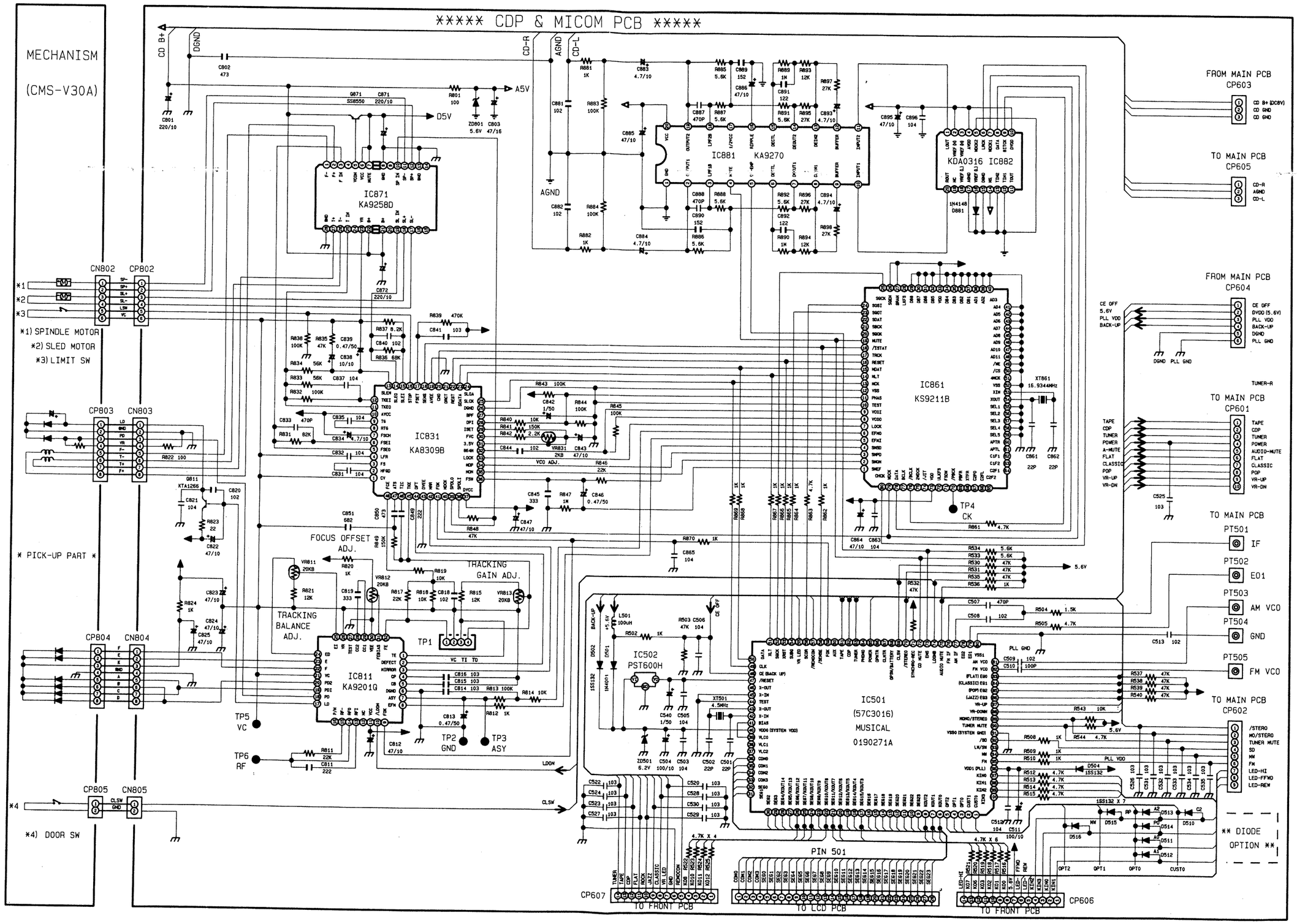
B	A	PORT	PATTERN
0	0	0X,0Y	FLAT
0	1	1X,1Y	CLASSIC
1	0	2X,2Y	ROCK
1	1	3X,3Y	JAZZ

B	A	PORT	FUNCTION
1	1	3X,3Y	TUNER
0	1	1X,1Y	CDP
1	0	2X,2Y	TAPE

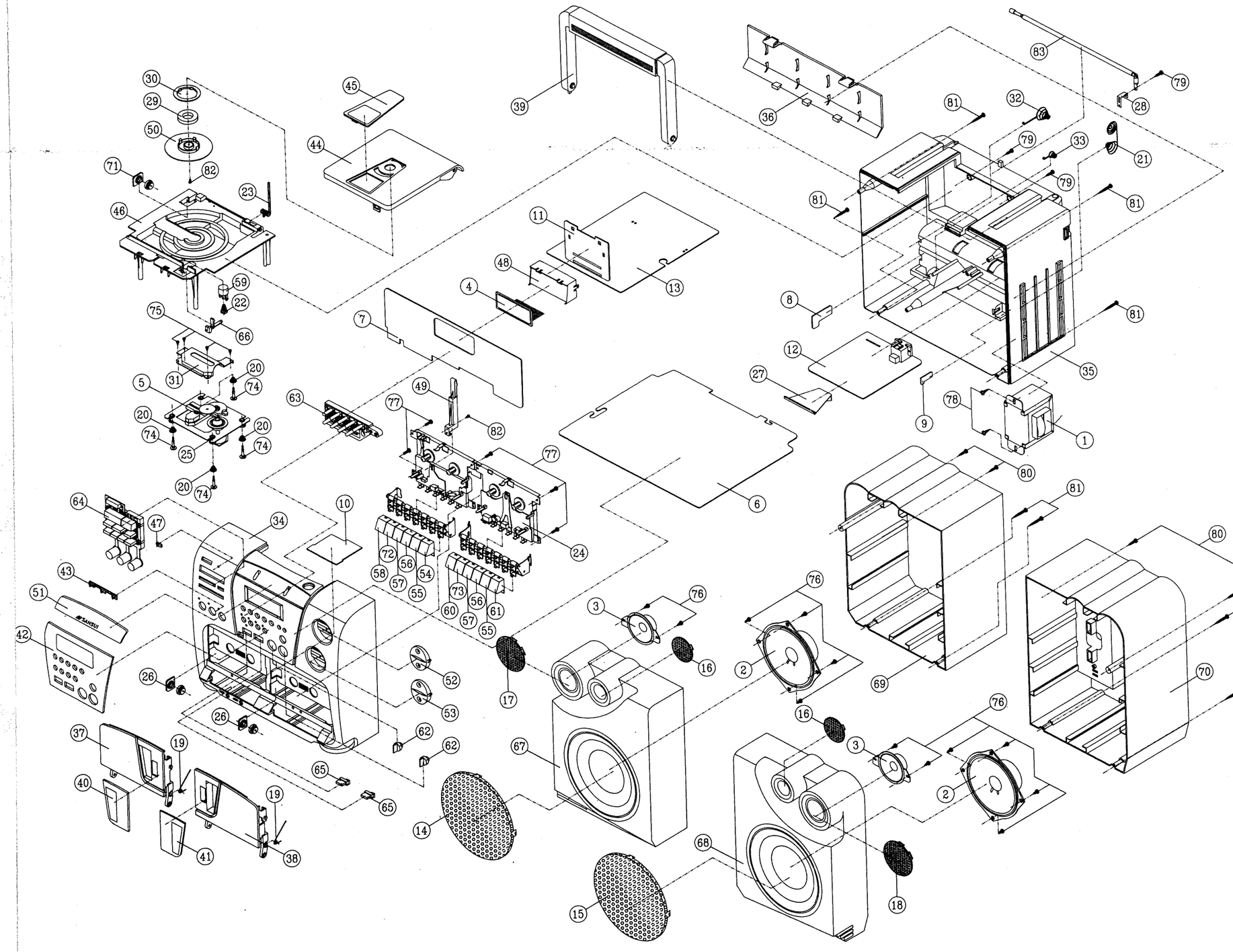

MAIN PCB
L-OUT
R-OUT
R-REC
L-REC
MIC MUTE
TUNER
TAPE
+8V
REW
FFWD
HSLED
MOTOR VCC
REW LED
FFWD LED
HI-S LED
FW
RV
DECK GND
MOTOR
R/P MOTOR
P.B MOTOR
P.B PLAY
IC401
TA8189N
CN401
CN402
CN403
CN404
B-DECK
P.B HEAD
ERASE HEAD
A-DECK
R/P HEAD
R-ch
L-ch
Rch
Lch
PLAY ⟷ REC
H(P/B PLAY)
HI-SPEED LED
H : P.B PLAY
H : MOTOR ON
H : REC
H : HI-SPEED
H : BEAT CUT
H (HI-SPEED & BEATCUT)
TAPE OSC COIL
60KHz ADJ.
MOTOR SPEED
3KHz ADJ.
T401
TAPE OSC
SW402
NORMAL
HI-SPEED
SW403
BEAT CUT
ALC
TO DECK MECH


FRONT PCB
KOUT0
KOUT1
KOUT2
KOUT3
KOUT6
KOUT7
KOUT8
KOUT10
KOUT11
KOUT12
KIN0
KIN1
KIN2
KIN3
SW600 TUNER
SW603 POWER
SW607 TUN UP
SW613 PLAY
SW620 SE/SK+
SW622 FLAT
SW601 CDP
SW608 TUN DN
SW614 STOP
SW617 I.SCAN
SW621 SE/SK-
SW623 CLASSIC
SW602 TAPE
SW604 BAND
SW609 PRE UP
SW611 VR UP
SW615 PROGRAM
SW618 REPEAT
SW624 POP
SW605 MEMORY
SW606 MO/ST
SW610 PRE DN
SW612 VR DN
SW616 RANDOM
SW619 REMAIN
SW625 JAZZ
LD511 Hi-SPEED
LD501 POWER
LD506 CLASSIC
LD508 JAZZ
LD507 POP
LD505 FLAT
LD504 CD
LD503 TAPE
LD502 RADIO
IC571 MODULE
LD509 REW
LD510 FFWD
Q601 C114
Q504 C114
Q503 C114
Q502 C114
CN807 FROM CD/UCOM PCB
CN808 TO CD/UCOM PCB


REMOCON PCB
LD301 INFRARED LED
Q301 G3202GR
IC301 KS51800-19
BATTERY +3V
K63 REPEAT
K62 REMAIN
K61 FLAT
K60 CLASSIC
K58 BAND
K57 TUNER
K56 POWER
K55 RANDOM
K54 BACK/FB
K53 STOP
K52 JAZZ
K51 PRE-
K50 SCAN-
K49 TAPE
K47 INTRO
K46 NEXT/FF
K46 PLAY/ PAUSE
K44 POP
K43 PRE+
K42 SCAN+
K41 CDP
K34 VR-DN
K36 FM MODE
K28 VR-UP
K24 MUTE

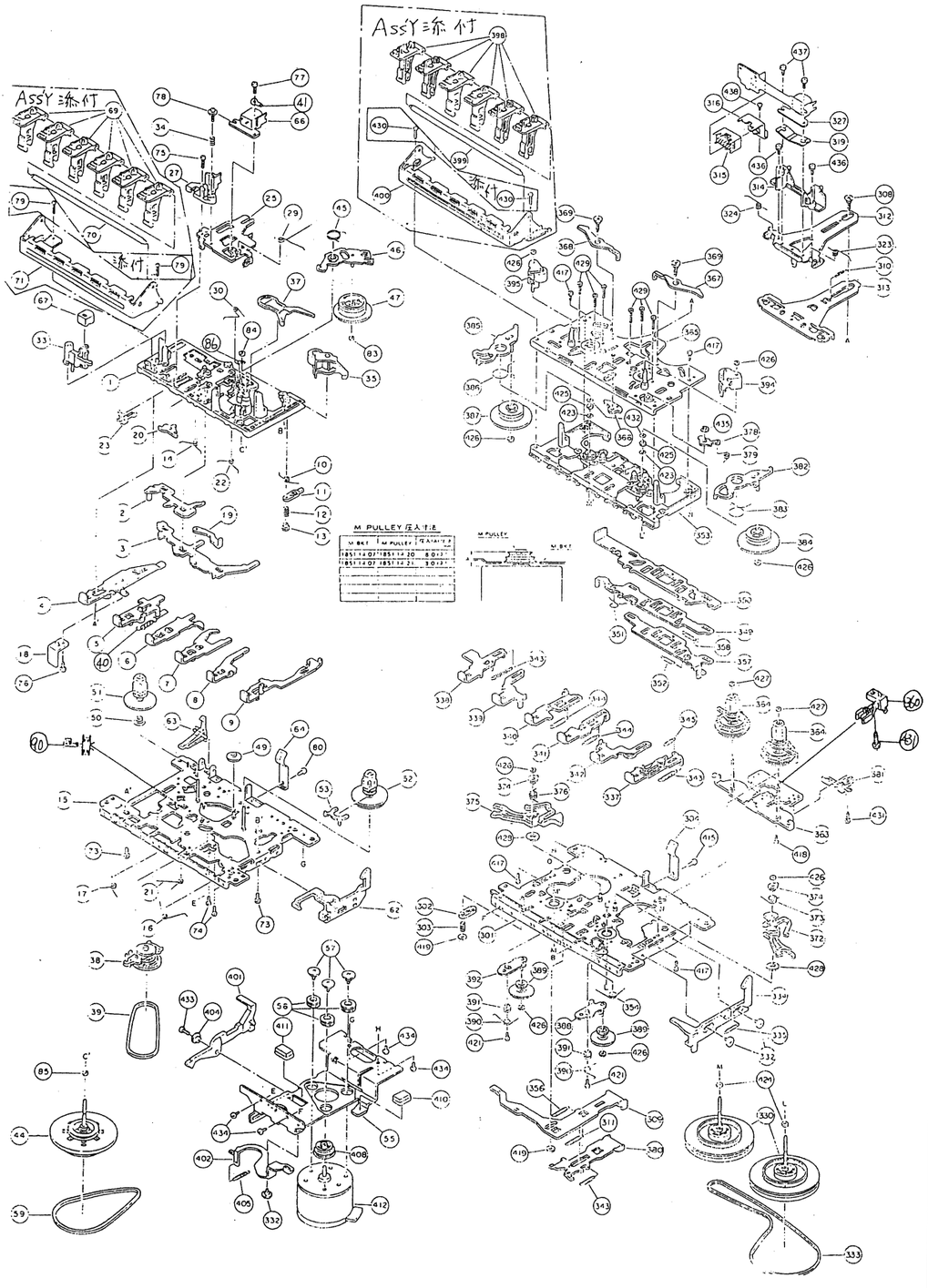

***** CDP & MICOM PCB *****
MECHANISM
(CMS-V30A)
* PICK-UP PART *
*1) SPINDLE MOTOR
*2) SLED MOTOR
*3) LIMIT SW
*4) DOOR SW
CD B+
DGND
CD-R
AGND
CD-L
A5V
D5V
IC871 KA9258D
IC881 KA9270
IC882 KDA0316
IC831 KA8309B
IC811 KA9201Q
IC861 KS9211B
IC501 (57C3016) MUSICAL 0190271A
IC502 PST600H
FOCUS OFFSET ADJ.
TRACKING GAIN ADJ.
TRACKING BALANCE ADJ.
VCO ADJ.
TP1
TP2 GND
TP3 ASY
TP4 CK
TP5 VC
TP6 RF
CN802
CP802
CP803
CN803
CP804
CN804
CP805
CN805
CLSW
LDON
PIN 501
FROM MAIN PCB CP603
CD B+ (DC8V)
CD GND
CD GND
TO MAIN PCB CP605
CD-R
AGND
CD-L
FROM MAIN PCB CP604
CE OFF
5.6V PLL VDD BACK-UP
DVDD (5.6V)
PLL VDD
BACK-UP
DGND
PLL GND
TUNER-R
TO MAIN PCB CP601
TAPE
CDP
TUNER
POWER
A-MUTE
FLAT
CLASSIC
POP
VR-UP
VR-DN
TO MAIN PCB PT501
IF
PT502
EO1
PT503
AM VCO
PT504
GND
PT505
FM VCO
TO MAIN PCB CP602
/STERO
MO/STERO
TUNER MUTE
SD
MW
FM
LED-HI
LED-FFWD
LED-REW
** DIODE OPTION **
CP607
TO FRONT PCB
TO LCD PCB
CP606
TO FRONT PCB

EXPLODED VIEW/PARTS LIST (CABINET)



NO.	PART NO.	DESCRIPTION
1	0250240	POWER TRANSFORMER
2	0300109	SPEAKER 5" 3.2 OHM
3	0300110	SPEAKER 2" 3.2 OHM
4	0710048	LCD DISPLAY
5	0720056	CD MECHANISM ASS'Y
6	01077001	MAIN PCB
7	01077002	FRONT PCB
8	01077003	12V BATTERY PCB
9	01077004	4.5V BATTERY PCB
10	01077005	HEADPHONE & MIC PCB
11	01077006	LCD PCB
12	01077007	POWER PCB
13	01077008	CD MAIN PCB
14	0400077001	SPEAKER GRILLE (L)
15	0400077002	SPEAKER GRILLE (R)
16	0400077003	DUCT GRILLE L & R
17	0400077004	SPEAKER GRILLE L (TWEETER)
18	0400077005	SPEAKER GRILLE R (TWEETER)
19	0470077003	CASSETTE DOOR SPRING
20	0470100003	CD DECK SPRING
21	0470100010	BATTERY SPRING (+,-)
22	0470100011	OPEN SPRING
23	0470100019	CD DOOR SPRING
24	T770-76	COMPLETED DECK
25	0580100001	RUBBER
26	0780265001	ENPLAS OIL DAMPER
27	0840077015	PWR PCB BRACKET
28	0840100013	LUG ANTENNA
29	0840100045	MAGNET RING
30	0840100046	CLAMPER PLATE
31	0840250509	METAL COVER
32	0470100002A	BATTERY SPRING (-)
33	0470100002B	BATTERY SPRING (-)
34	0370077001	FRONT CASE
35	0370077002	REAR CASE
36	0370077008	BATTERY DOOR
37	0370077009	CASS DOOR (L)
38	0370077010	CASS DOOR (R)
39	0370077012	HANDLE
40	0370077021	CASSETTE DOOR LENS (L)
41	0370077022	CASSETTE DOOR LENS (R)
42	0370077048	DISPLAY LENS
43	0370077056	FUNCTION LENS
44	0370077070	CD DOOR
45	0370077071	CD DOOR LENS
46	0370077092	CD CHASSIS BRACKET
47	0370077094	POWER LENS
48	0780077011	LCD HOLDER
49	0780077028	RECORDING LEVER
50	0780077070	CLAMPER PLATE
51	0780077087	DECO FRONT
52	0820077015	TUNING KNOB
53	0820077016	VOLUME KNOB
54	0820077019	CASSETTE KNOB (PAUSE)
55	0820077020	CASSETTE KNOB (ST/EJ)
56	0820077021	CASSETTE KNOB (F.F.)
57	0820077022	CASSETTE KNOB (REW)
58	0820077024	CASSETTE KNOB (REC)
59	0820077057	CD DOOR OPEN KNOB
60	0820077062	CASSETTE KNOB (MODE)
61	0820077061	CASSETTE KNOB (DIRECTION)
62	0820077072	BALANCE KNOB
63	0820077094	TACT-A KNOB
64	0820077095	TACT-B KNOB
65	0820077096	KARAOKE KNOB
66	07800770104	CD DOOR EJECTOR
67	0370077026L	SPEAKER FRONT CASE (L)
68	0370077026R	SPEAKER FRONT CASE (R)
69	0370077027L	SPEAKER REAR CASE (L)
70	0370077027R	SPEAKER REAR CASE (R)
71	0780265001A	ENPLAS OIL DAMPER
72	0820077023L	CASSETTE KNOB (PLAY-A)
73	0820077023R	CASSETTE KNOB (PLAY-B)
74	0430205SZ	TAPPING SCREW 2x18.5
75	0432006BT	TAPPING SCREW 2x6BH TA
76	0433008TW	TAPPING SCREW 3x8TA
77	0433010BB	TAPPING SCREW 3x10BH TB
78	0433012TW	TAPPING SCREW 3x12TA WH
79	0433014BTB	TAPPING SCREW 3x14BH TA/BLK
80	0433016BT	TAPPING SCREW 3x16BH TA
81	0433028BTB	TAPPING SCREW 3x28 BH TA/BLK
82	0442004RHA	MACHINE SCREW 2x4 RH (T.T.)
83	0120020	ROD ANTENNA

EXPLODED VIEW/PARTS LIST (DECK)

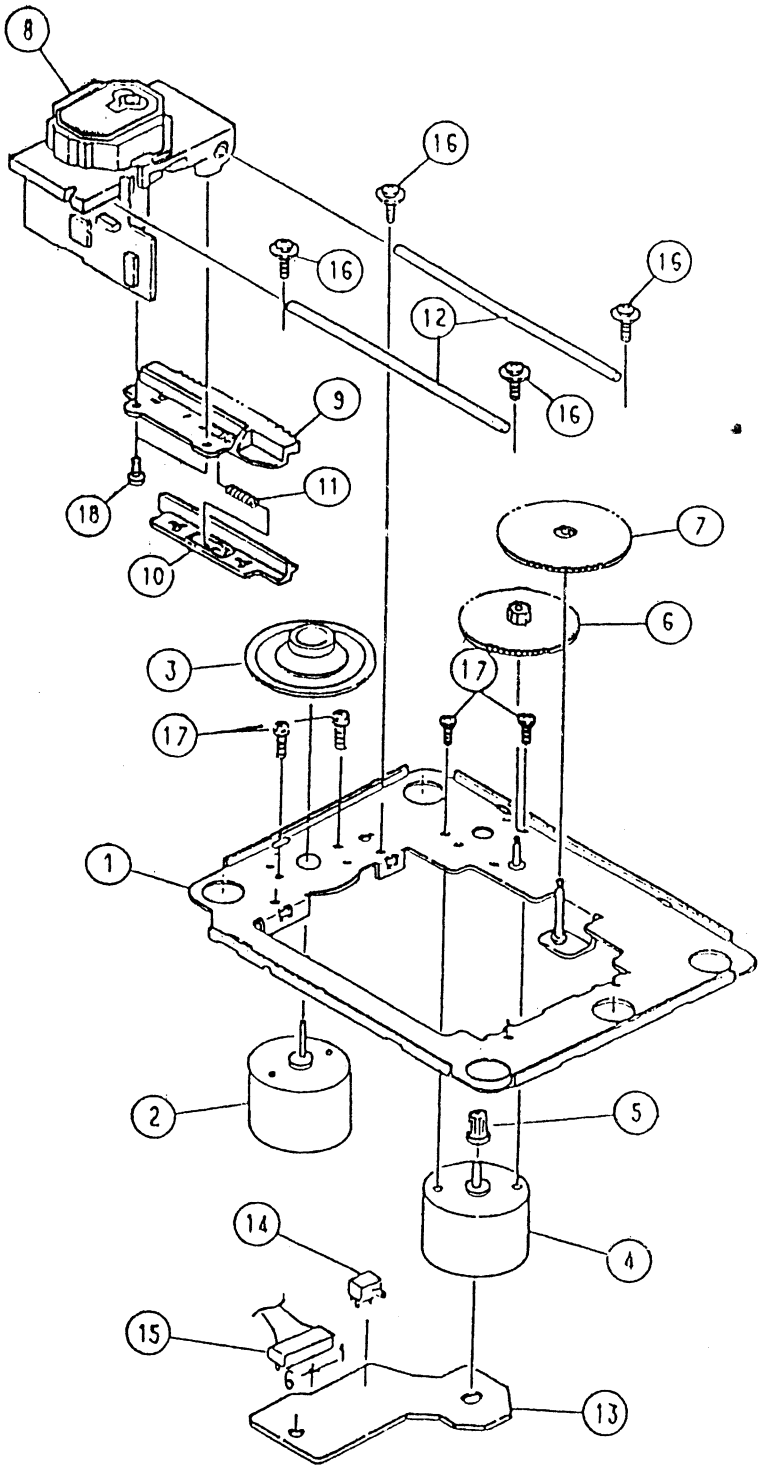


NO.	PART NO.	DESCRIPTION
1	192114301	BASE ASS'Y
2	19211409	SWITCH ACTUATOR
3	19211408	PUSH BUTTON ACTUATOR
4	19211422	REC BUTTON LEVER
5	19211423	PLAY BUTTON LEVER
6	19211424	RWD BUTTON LEVER
7	19211425	FF BUTTON LEVER
8	19211426	STOP BUTTON LEVER
9	19211461	PAUSE BUTTON LEVER
10	19211413A	P CONTROL SPRING
11	19211482	PAUSE LEVER (F)
12	19211412	PAUSE LEVER SPRING
13	19211411	PAUSE STOPPER
14	19211414	BUTTON LEVER SPRING (A)
15	192101501	CHASSIS ASS'Y
16	19211416	E ACTUATOR SPRING
17	19211417	P.S. LEVER SPRING
18	15100202	REC SPRING PLATE
19	182101159	E KICK LEVER
20	19211420	PR STOPPER
21	19211421	REC BUTTON LEVER SPRING
22	18211415	BUTTON LEVER SPRING (B)
23	640101149	LEAF SWITCH MSW-1541T
25	19210311	HEAD PANEL
27	19210304A	HEAD BASE
29	19210309	PANEL P SPRING
30	19211418A	M CONTROL SPRING
33	19210305	MG ARM
34	18210307	AZIMUTH SPRING
35	192104309	PINCH ROLLER ARM ASS'Y
37	19212604A	SENSING LEVER
38	192107308	RF CLUTCH ASS'Y
39	18210711	RF BELT
40	18210150	P.B. LEVER SPRING (S)
41	94800000	LUG PLATE 3B 2.0
44	192109303	FLYWHEEL ASS'Y
45	19212605	GEAR PLATE SPRING
46	192126501	GEAR PLATE ASS'Y
47	19212602	CAM GEAR
49	18211070	FF GEAR
50	18211099	BACK TENSION SPRING
51	192105304	SUPPLY REEL ASS'Y
52	192105303	TAKE UP REEL ASS'Y
53	19210506	SENSOR
55	18511407	MOTOR BRACKET
56	18211266	MOTOR RUBBER
57	18511418	MOTOR COLLAR SCREW
59	182112173	MAIN BELT
62	19211302	EJECT SLIDE LEVER
63	18211069	RECORD SAFETY LEVER
64	18291006	PACK SPRING
66	0750026	R.P. HEAD
67	0750006	ERASE HEAD
69	18213107	OPERATION LEVER
70	18293103	BUTTON LEVER SHAFT
71	18213106	BUTTON FLAME (S)
73	96790000	P.T. BIND SCERW M2x5

NO.	PART NO.	DESCRIPTION
74	99991809	CAMERA T. SCREW M2x4.5
75	90040000	SCREW M2x6
76	91790000	C TAPPING SCREW M2x3
77	91150000	– BIND SCREW M2x3
78	99220000	AZIMUTH SCREW M2x7
79	99991402	CAMERA T. SCREW M2x8
80	9P3320032	D.T. SCREW M2x3 (SPECIAL)
83	94220000	P.W. CUT 1.2x3.8x0.3
84	99990313	P.W. CUT 1.45x3.8x0.5
85	98820000	P.W. 2x3.5x0.4
86	99990003	P.W. 2.1x4x0.13
90	640101161	LEAF SWITCH
301	185101301	CHASSIS ASS'Y
302	18210115	PAUSE LEVER
303	18210116	PAUSE LEVER SPRING
304	18291006	PACK SPRING
308	18510455	H.P. COLLAR SCREW
309	18510408	RELEASE PLATE
310	18510409	R.C. PLATE SPRING
311	18510410	R.C. SPRING
312	18510401	HEAD PANEL
313	18510402	R.C. PLATE
314	18510403	TAPE GUIDE
315	64030204	SLIDE SWITCH
316	18511601	SWITCH BRACKET
319	18510405	HEAD SPRING PLATE
323	18510406	PINCH ROLLER SPRING (F)
324	18510407	PINCH ROLLER SPRING (R)
327	0750009	P. HEAD
330	185112501	FLYWHEEL ASS'Y
332	18211223	P.K. COLLAR SCREW (A)
333	182112142	MAIN BELT
334	18511703	EJECT SLIDE LEVER
335	18511702	EJECT SLIDE LEVER SPRING
337	185102304	PROG BUTTON LEVER ASS'Y
338	185102309	MODE BUTTON LEVER ASS'Y
339	18510232	PLAY BUTTON LEVER (S)
340	18510235	FF BUTTON LEVER R (S)
341	18510234	FF BUTTON LEVER F (S)
342	18510231	STOP BUTTON LEVER (S)
343	18510222	BUTTON LEVER SPRING
344	18510224	FF BUTTON LEVER SPRING
345	18510227	PULL ARM SPRING
349	185102301	LOCK ACTUATOR ASS'Y
350	18510217	SLIDE PLATE
351	18510220	LOCK RELEASE SPRING
352	18510226	SW ACTUATOR SPRING
353	185102501	BUTTON BASE ASS'Y
354	18510221	S. BUTTON LEVER SPRING
356	18510242	BUTTON LEVER SPRING (P)
357	185102302	SW ACTUATOR ASS'Y
358	18510225	LOCK ACTUATOR SPRING
360	64010138	LEAF SWITCH
363	185111301	REEL PLATE ASS'Y
364	185111501	REEL ASS'Y
365	185118305	SUB CHASSIS ASS'Y
366	18511804	RC ARM

NO.	PART NO.	DESCRIPTION
367	18511805	AUTO CONTROL ARM (F)
368	18511806	AUTO CONTROL ARM (R)
369	18511812	C ARM COLLAR SCREW
372	18512001	AUTO LEVER (F)
373	18512004	AUTO LEVER (F) SPRING
374	18512005	SPRING STOPPER
375	18512002	AUTO LEVER (R)
376	18512003	AUTO LEVER (R) SPRING
378	18510301	TURN OVER ARM
379	18510302	TURN OVER SPRING
380	18511602	FF SW PLATE
381	640101172	LEAF SWITCH
382	185105302	T GEAR ARM (F) ASS'Y
383	18510504	T GEAR ARM (F) SPRING
384	18510503	T CAM GEAR (F)
385	185106302	T GEAR ARM (R) ASS'Y
386	18510603	T GEAR ARM (R) SPRING
387	18510602	T CAM GEAR (R)
388	185107301	FF GEAR ARM (F) ASS'Y
389	18510703	FF GEAR
390	18510704	FF GEAR ARM SPRING (F)
391	18510705	FF GEAR ARM COLLAR
392	185108301	FF GEAR ARM (R) ASS'Y
394	185109501	PINCH ROLLER (F) ASS'Y
395	185110501	PINCH ROLLER (R) ASS'Y
398	18213107	OPERATION LEVER
399	18293103	BUTTON LEVER SHAFT
400	18513101	BUTTON FLAME (S)
401	19211225	P KICK LEVER (B)
402	18511406	P KICK LEVER
404	18211265	COLLAR (B)
405	18511404	P KICK LEVER SPRING
408	18511431	MOTOR PULLEY
410	182112109	ANTI-VIBRATION FELT MAT
411	18001084	ANTI-VIBRATION FELT MAT
412	0740008	MOTOR
415	9P3320032	D.T. SCREW M2x3(SPECIAL)
417	96740000	P.T. SCREW M2x6
418	9C1917305	TSS 1.7x3
419	98760000	P.W. CUT 2.1x5x0.5
421	9C1917403	TSS 1.7x4
423	97860000	P.W. 2x3.5x0.3
424	98890000	P.W. 2.1x3x0.3
425	99990309	P.W. CUT 1.45x4x.5
426	94210000	P.W. CUT 1.2x3x0.25
427	98880000	P.W. CUT 1.2x3x.4
428	99990009	P.W. 3.1x8.5x0.13
429	9C2017851	TSS-G 1.7x8.5
430	99991302	C T. SCREW M2x9
431	91810000	+ C T. SCREW M2x5
432	99990013	P.W. 1.75x4x0.3
433	91820000	C T. SCREW M2x6
434	91800000	C T. SCREW M2x4
435	95020000	E RING S2.0
436	90790000	+ TAMS SCREW M2x6
437	99992007	SCREW M2x4.5
438	9C1917253	TSS 1.7x2.5

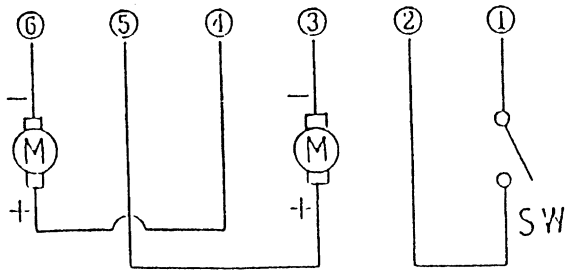
EXPLODED VIEW/PARTS LIST (CD)



	PARTS NAME
1	CHASSIS
2	SPINDLE MOTOR
3	TURN TABLE
4	SLIDE MOTOR
5	MOTOR GEAR
6	MIDDLE GEAR
7	DRIVE GEAR
8	PICKUP UNIT
9	RACK A
10	RACK B
11	SPRING
12	GUIDE SHAFT
13	MOTOR PWB
14	LIMIT SWITCH
15	CONNECTOR
16	SCREW ø2.6 – 6mm
17	SCREW ø2.0 – 3mm
18	SCREW ø2.6 – 6mm

MOTOR CONNECTOR WIRING

NO.	NAME
1	LIMIT SWITCH
2	LIMIT SWITCH
3	SLIDE MOTOR –
4	SPINDLE MOTOR +
5	SLIDE MOTOR +
6	SPINDLE MOTOR –



REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	QTY.
C101/C107/C109/C208/C509/C513/ C603/C653/C840	014102B	0.001UF CER.CAP.	9
C302/C303/C510/C910/C960	014103A	100PF CER.CAP.	5
C116/C121/C170/C176/C520/C522/ C523/C524/C526/C527/C528/C529/ C530/C531/C532/C533/C534/C535	014103B	0.01UF CER.CAP.	18
C120/C503/C505/C506/C512/C610/ C713/C714/C718/C719/C821/C831/ C832/C835/C837/C863/C865/C896	014104B	0.1UF CER.CAP.	18
C423/C473	014123A	120PF CER.CAP.	2
C104/C402/C403/C452/C453	014153A	150PF CER.CAP.	5
C424/C474	014183A	180PF CER.CAP.	2
C105/C110/C111/C112/C113/C115/ C119/C123/C127/C128/C130/C131/ C138/C145/C151/C152/C160/C163/ C167/C168/C177/C432/C436/C437/ C701/C702/C703/C704	014203B	0.02UF CER.CAP.	28
C100/C106/C501/C502/C861/C862	014222A	22PF CER.CAP.	6
C611/C661	014223A	220PF CER.CAP.	2
C906/C956	014272A	27PF CER.CAP.	2
C166	014273A	270PF CER.CAP.	1
C108/C143	014301A	3PF CER.CAP.	2
C148/C428/C478	014333A	330PF CER.CAP.	3
C103	014401A	4PF CER.CAP.	1
C124/C126/C129/C136/C154/C156/ C162	014403B	0.04UF CER.CAP.	7
C401/C419/C451/C469/C507/C833/ C887/C888/C905/C955	014473A	470PF CER.CAP.	10
C418/C468	014563A	560PF CER.CAP.	2
C904/C954	014683A	680PF CER.CAP.	2
C135	014822A	82PF CER.CAP.	1
C434/C818/C820/C844/C881/C882	015102A	0.001UF MYLAR CAP.	6
C141/C191/C301/C417/C467/C814/ C815/C816/C841/C908/C958	015104A	0.1UF MYLAR CAP.	11
C422/C472/C891/C892	015122A	0.0012UF MYLAR CAP.	4
C435/C889/C890	015152A	0.0015UF MYLAR CAP.	3
C606/C656	015154A	0.15UF MYLAR CAP.	2
C811/C849	015222A	0.0022UF MYLAR CAP.	2
C430/C909/C959	015332A	0.0033UF MYLAR CAP.	3
C819/C845	015333A	0.033UF MYLAR CAP.	2
C132/C431	015391B	390PF POLY.CAP.	2
C306	015392A	0.0039UF MYLAR CAP.	1
C137/C903/C907/C953/C957	015472A	0.0047UF MYLAR CAP.	5
C214/C802/C850	015473A	0.047UF MYLAR CAP.	3
C134	015561B	560PF POLY CAP.	1
C114/C461	015563A	0.056UF MYLAR CAP.	2
C405/C413/C455/C463/C851	015682A	0.0068UF MYLAR CAP.	5
C146	015683A	0.068UF MYLAR CAP.	1
C147/C150	015823A	0.082UF MYLAR CAP.	2
C302/C304/C330/C331/C400/C540/ C842	017101D	1MFD 50V ELECT.CAP.	7
C208/C216/C266/C415/C421/C443/ C445/C446/C449/C465/C471/C571/ C838/C902/C923/C952	017102A	10MFD 10V ELECT.CAP.	16
C102/C125/C504/C511/C608	017103A	100MFD 10V ELECT.CAP.	5
C139/C433/C604/C607/C645/C657/ C706	017103B	100MFD 16V ELECT.CAP.	7
C708	017104A	1000MFD 10V ELECT.CAP.	1
C605/C655	017104B	1000MFD 16V ELECT.CAP.	2
C215	017220D	0.22MFD 50V ELECT.CAP.	1

REF. NO.	PART NO.	DESCRIPTION	QTY.
C101/C107/C109/C208/C509/C513/ C603/C653/C840	014102B	0.001UF CER.CAP.	9
C302/C303/C510/C910/C960	014103A	100PF CER.CAP.	5
C116/C121/C170/C176/C520/C522/ C523/C524/C526/C527/C528/C529/ C530/C531/C532/C533/C534/C535	014103B	0.01UF CER.CAP.	18
C120/C503/C505/C506/C512/C610/ C713/C714/C718/C719/C821/C831/ C832/C835/C837/C863/C865/C896	014104B	0.1UF CER.CAP.	18
C423/C473	014123A	120PF CER.CAP.	2
C104/C402/C403/C452/C453	014153A	150PF CER.CAP.	5
C424/C474	014183A	180PF CER.CAP.	2
C105/C110/C111/C112/C113/C115/ C119/C123/C127/C128/C130/C131/ C138/C145/C151/C152/C160/C163/ C167/C168/C177/C432/C436/C437/ C701/C702/C703/C704	014203B	0.02UF CER.CAP.	28
C100/C106/C501/C502/C861/C862	014222A	22PF CER.CAP.	6
C611/C661	014223A	220PF CER.CAP.	2
C906/C956	014272A	27PF CER.CAP.	2
C166	014273A	270PF CER.CAP.	1
C108/C143	014301A	3PF CER.CAP.	2
C148/C428/C478	014333A	330PF CER.CAP.	3
C103	014401A	4PF CER.CAP.	1
C124/C126/C129/C136/C154/C156/ C162	014403B	0.04UF CER.CAP.	7
C401/C419/C451/C469/C507/C833/ C887/C888/C905/C955	014473A	470PF CER.CAP.	10
C418/C468	014563A	560PF CER.CAP.	2
C904/C954	014683A	680PF CER.CAP.	2
C135	014822A	82PF CER.CAP.	1
C434/C818/C820/C844/C881/C882	015102A	0.001UF MYLAR CAP.	6
C141/C191/C301/C417/C467/C814/ C815/C816/C841/C908/C958	015104A	0.1UF MYLAR CAP.	11
C422/C472/C891/C892	015122A	0.0012UF MYLAR CAP.	4
C435/C889/C890	015152A	0.0015UF MYLAR CAP.	3
C606/C656	015154A	0.15UF MYLAR CAP.	2
C811/C849	015222A	0.0022UF MYLAR CAP.	2
C430/C909/C959	015332A	0.0033UF MYLAR CAP.	3
C819/C845	015333A	0.033UF MYLAR CAP.	2
C132/C431	015391B	390PF POLY.CAP.	2
C306	015392A	0.0039UF MYLAR CAP.	1
C137/C903/C907/C953/C957	015472A	0.0047UF MYLAR CAP.	5
C214/C802/C850	015473A	0.047UF MYLAR CAP.	3
C134	015561B	560PF POLY CAP.	1
C114/C461	015563A	0.056UF MYLAR CAP.	2
C405/C413/C455/C463/C851	015682A	0.0068UF MYLAR CAP.	5
C146	015683A	0.068UF MYLAR CAP.	1
C147/C150	015823A	0.082UF MYLAR CAP.	2
C302/C304/C330/C331/C400/C540/ C842	017101D	1MFD 50V ELECT.CAP.	7
C208/C216/C266/C415/C421/C443/ C445/C446/C449/C465/C471/C571/ C838/C902/C923/C952	017102A	10MFD 10V ELECT.CAP.	16
C102/C125/C504/C511/C608	017103A	100MFD 10V ELECT.CAP.	5
C139/C433/C604/C607/C645/C657/ C706	017103B	100MFD 16V ELECT.CAP.	7
C708	017104A	1000MFD 10V ELECT.CAP.	1
C605/C655	017104B	1000MFD 16V ELECT.CAP.	2
C215	017220D	0.22MFD 50V ELECT.CAP.	1

REF. NO.	PART NO.	DESCRIPTION	QTY.
C140/C149/C212/C262/C457	017221D	2.2MFD 50V ELECT.CAP.	5
C217	017222A	22MFD 10V ELECT.CAP.	1
C157/C164/C307/C320/C707/C710/ C716/C801/C871/C872	017223A	220MFD 10V ELECT.CAP.	10
C438	017223B	220MFD 16V ELECT.CAP.	1
C712	017223C	220MFD 25V ELECT.CAP.	1
C456	017331D	2.2MFD 50V ELECT.CAP.	1
C159/C601/C813/C839/C846	017470D	0.47MFD 50V ELECT.CAP.	5
C142/C155/C192/C201/C202/C203/ C204/C251/C252/C253/C254/C303/ C305/C321/C322/C323/C324/C325/ C328/C329/C372/C373/C374/C375/ C378/C412/C602/C652/C715/C834/ C883/C884/C893/C894/C462/C901/ C911/C951/C961/C371	017471D	4.7MFD 50V ELECT.CAP.	40
C301	017471DE	4.7MFD MINI SIZE 50V ELECT.CAP.	1
C114/C327/C404/C406/C408/C409/ C454/C458/C803/C812/C822/C823/ C824/C825/C843/C847/C864/C885/ C886/C895/C921/C922	017472A	47MFD 10V ELECT.CAP.	22
C326/C407/C709/C711	017473A	470MFD 10V ELECT.CAP.	4
C717	017473B	470MFD 16V ELECT.CAP.	1
C705	017474C	4700MFD 25V ELECT.CAP.	1
R302	022101C	1 OHM RESISTOR 1/16W	1
R108/R113/R442	022102A	10 OHM RESISTOR	3
R708	022102B	10 OHM RESISTOR 1/2W	1
R707	022102D	10 OHM RESISTOR 1W	1
R101/R112/R114/R145/R230/R305/ R312/R321/R701/R801/R822	022103A	100 OHM RESISTOR	11
R127/R128/R132/R137/R138/R147/ R177/R217/R267/R304/R308/R311/ R415/R465/R502/R506/R507/R508/ R509/R510/R536/R607/R812/R820/ R824/R862/R864/R865/R866/R867/ R868/R869/R870/R881/R882	022104A	1K RESISTOR	35
R136/R155/R157/R203/R218/R239/ R253/R268/R329/R330/R423/R430/ R444/R445/R447/R473/R485/R487/ R543/R608/R703/R713/R814/R818/ R819/R840/R902/R924/R952	022105A	10K RESISTOR	29
R106/R121/R125/R151/R215/R265/ R335/R416/R419/R466/R469/R813/ R832/R838/R843/R844/R845/R883/ R884/R901/R903/R908/R951/R953/ R958	022106A	100K RESISTOR	25
R302/R847/R889/R890	022107A	1M RESISTOR	4
R309/R402/R452	022123A	120 OHM RESISTOR	3
R407/R815/R821/R893/R894/R912/ R913/R962/R963	022125A	12K RESISTOR	9
R110/R434	022153A	150 OHM RESISTOR	2
R240/R504/R704/R705/R914/R964	022154A	1.5K RESISTOR	6
R148/R149	022155A	15K RESISTOR	2
R412/R162/R841/R849	022156A	150K RESISTOR	4
R406/R456	022184A	1.8K RESISTOR	2
R429/R479	022185A	18K RESISTOR	2
R905/R955	022186A	180K RESISTOR	2
R602/R652	022221A	2.2 OHM RESISTOR	2
R823	022222A	22 OHM RESISTOR	1
R122/R123/R124/R126/R130/R413/ R463/R842	022224A	2.2K RESISTOR	8

REF. NO.	PART NO.	DESCRIPTION	QTY.
R135/R407/R572/R573/R574/R575	022223A	220 OHM RESISTOR	6
R102/R107/R142/R156/R192/R201/ R251/R301/R405/R443/R455/R811/ R817/R846/R905/R957	022225A	22K RESISTOR	16
R131/R320/R328/R370	022226A	220K RESISTOR	4
R603/R606/R653/R656	022273A	270 OHM RESISTOR	4
R202/R252/R431/R895/R896/R897/ R898/R909/R923/R959	022274A	27K RESISTOR	10
R152	022332A	33 OHM RESISTOR	1
R111	022333A	330 OHM RESISTOR	1
R331/R904/R954	022335A	33K RESISTOR	3
R109	022336A	330K RESISTOR	1
R576	022393A	390 OHM RESISTOR	1
R437	022394A	3.9K RESISTOR	1
R432	022472A	47 OHM RESISTOR	1
R712	022472B	47 OHM RESISTOR 1/2W	1
R105/R511/R706	022473A	470 OHM RESISTOR	3
R116/R120/R141/R143/R191/R193/ R208/R219/R258/R322/R323/R325/ R334/R372/R373/R375/R505/R512/ R513/R514/R515/R516/R517/R518/ R519/R520/R521/R522/R523/R524/ R525/R544/R861/R863	022474A	4.7K RESISTOR	34
R103/R104/R115/R211/R212/R324/ R332/R333/R336/R374/R310/R408/ R411/R461/R503/R530/R531/R532/ R535/R537/R538/R539/R540/R601/ R604/R651/R654/R835/R848/R911/ R910/R925/R926/R960/R961	022475A	47K RESISTOR	35
R303/R307/R448/R839	022476A	470K RESISTOR	4
R154	022562A	56 OHM RESISTOR	1
R207/R257/R709	022563A	560 OHM RESISTOR	3
R446/R533/R534/R885/R886/R887/ R888/R891/R892	022564A	5.6K RESISTOR	9
R833/R834R/R906/R956	022565A	56K RESISTOR	4
R301	022566A	560K RESISTOR	1
R436	022684A	6.8K RESISTOR	1
R418/R468/R702/R836	022685A	68K RESISTOR	4
R326/R376/R414	022686A	680K RESISTOR	3
R438	022822A	82 OHM RESISTOR	1
R327/R377/R837	022824A	8.2K RESISTOR	3
R435/R831	022825A	82K RESISTOR	2
R403/R453	022826A	820K RESISTOR	2
L401/L451	0110104	FIXED INDUCTOR COIL CW-403K	2
L105	0110107	FIXED COIL 22uH	1
L402/L452	0110115	FIXED COIL 1mH	2
L101/L102	0110123	FM OSC COIL 1 7/8T	2
L501	0110143	CHOKE COIL 100uH	1
L403	0110158	CHOKE COIL CW-102K	1
L103	0110166	AM COIL 71 : 17T	1
L104	0110169	LW COIL 230 : 25T	1
L106	0110170	CHOKE COIL 2.7mH	1
BF101	0160007	FM BAND PASS FILTER	1
X301	0160008	CER. FILTER CSB455E	1
X102	0160010	CER. FILTER CSB456F18	1
CF103	0160011	CER. FILTER SFU450B	1
X111	0160013	CER. FILTER CDA10.7MG18-A	1
CF101/CF102	0160014	CER. FILTER SFE10.7MS2-A	2
TC102/TC103/TC104/TC105/TC106	0180014	TRIMMER 30PF GREEN	5
TC101	0180015	TRIMMER 10PF WHITE	1

REF. NO.	PART NO.	DESCRIPTION	QTY.
F701	0180024	FUSE 2.5A 250V TIME LAG	1
IC701	0190026	I.C. UPC78M08H	1
IC101	0190044	I.C. KA22495	1
IC102	0190052	I.C. TA8132AN	1
IC401	0190179	I.C. TA8189N	1
IC601	0190186	I.C. TA8223K	1
IC301	0190228	I.C. TC9153AP	1
IC201/IC902	0190232	I.C. BA4052B	2
IC811	0190259	I.C. KA9201Q	1
IC831	0190260	I.C. KA8309B	1
IC861	0190261	I.C. KS9211B	1
IC882	0190262	I.C. KDA0316LD	1
IC871	0190263	I.C. KA9258D	1
IC881	0190264	I.C. KA9270	1
IC702	0190272	I.C. KIA78L05BP	1
IC301	0190273	I.C. KS51800-19	1
IC501	0190291	I.C. KRM-50M	1
IC901	0190293	I.C. KIA4558S	1
IC502	0190295	I.C. PST600H 3.1V TYP	1
IC202	0190296	I.C. BA3837	1
D301/D304/D501/D705	0200004	DIODE IN4001	4
ZD702	0200009	ZENER DIODE 10V	1
ZD801	0200010	ZENER DIODE 5.6V	1
D107/D881	0200014	DIODE IN4148	2
ZD501	0200017	ZENER DIODE 6.2V	1
ZD101	0200052	ZENER DIODE 5.1V	1
D121/D122	0200053	DIODE ISV101	2
D101/D105/D151/D152/D301/D302/ D303/D403/D404/D405/D407/D408/ D412/D413/D414/D415/D416/D502/ D504/D510/D514/D515/D700/D706/ D707/D901/D902/D903/D904	0200056	DIODE ISS132	29
ZD701	0200067	ZENER DIODE 9.1V	1
D123	0200073	VARICAP DIODE KV1236Z	1
LD301	0200074	DIODE EL 1L1	1
D701/D702/D703/D704	0200079	DIODE IN5401	4
VR301	0210112	ROTARY VOLUME B10K	1
VR901	0210113	ROTARY VOLUME B100K	1
Q133	0230021	TRANSISTOR FET 28K 118-R	1
Q408/Q413	0230075	TRANSISTOR 2SA1015	2
Q131/Q132/Q201/Q301/Q302/Q305/ Q306/Q355/Q356/Q430	0230102	TRANSISTOR C1815GR	10
Q603/Q871	0230103	TRANSISTOR 8550	2
Q121/Q122/Q123/Q124/Q301/Q407	0230153	TRANSISTOR KTC3202TR-GR	6
Q811	0230154	TRANSISTOR KTA 1266TP-Y	1
Q104/Q109/Q134/Q141/Q144/Q145/ Q146/Q147/Q211/Q212/Q411/Q416/ Q501/Q502/Q503/Q504/Q604/Q703/ Q706/Q902/Q904	0230155	TRANSISTOR DTC114ES	21
Q103/Q106/Q135/Q142/Q412/Q415/ Q702/Q705/Q901/Q903	0230156	TRANSISTOR DTA114ES	10
Q140/Q190/Q307/Q308/Q309/Q310/ Q401/Q414/Q451/Q601/Q651/Q709/ Q710	0230172	TRANSISTOR KRC110M	13
Q704/Q707	0230173	TRANSISTOR KTD2058Y	2
Q701	0230207	TRANSISTOR KTB1366Y	1
Q100/Q102/Q105	0230218	TRANSISTOR KTC3192-0	3
T102	0240059	I.F.T. 88-1188 YELLOW	1
T101	0240062	I.F.T. 88-2132 BLUE	1
T401	0240154	I.F.T. 88-5048 BROWN	1

REF. NO.	PART NO.	DESCRIPTION	QTY.
T103	0240217	I.F.T. 7mm OSC 007-299	1
T104	0240224	I.F.T. 7mm OSC 007-298	1
SW401	0260122	SLIDE SWITCH 6P2T	1
SW201/SW402	0260238	PUSH SWITCH PS-22E03L-NS	2
SW403	0260250	SLIDE SWITCH SS1206 RG8	1
SW600/SW601/SW602/SW603/SW604/ SW605/SW606/SW607/SW608/SW609/ SW610/SW611/SW612/SW613/SW614/ SW615/SW616/SW617/SW618/SW619/ SW620/SW621/SW622/SW623/SW624/ SW625	0260255	TACT SWITCH RS-014RA1 4.3mm	26
JK702	0270016	JACK 3.5mm ST-02	1
JK701	0270018	STEREO JACK 3.5mm	1
XT861	0300006	CRYSTAL® 16.9344MHz	1
XT501	0300009	CRYSTAL 4.5MHz	1
LD501/LD505/LD506/LD507/LD508/ LD511	0670015	LED LAMP 3mm RED	6
LD502/LD503/LD504/LD509/LD510	0670044	LED 5mm GREEN	5
LCD1	0710048	LCD DISPLAY	1
CN802	0760361	HEADER 6 PIN (ST)	1
CN804	0760362	HEADER 8 PIN (ST)	1
CN803	0760405	HEADER 8 PIN (ST) RED	1
CP704	0760417	HEADER 2 PIN (RA)	1
CN101/CN102/CN103/CN805	0760436	HEADER 2 PIN (ST)	4
CP601	0760467	HEADER 10 PIN (ST)	1
CN404/CP602	0760475	HEADER 9 PIN (ST)	2
CP702	0760485	HEADER 7 PIN (ST)	1
CN402	0760489	HEADER 5 PIN (ST)	1
CN103	0760502	2PIN HOUSING 180mmX2	1
CP604/CP701	0760509	HEADER 6 PIN (ST)	2
CN805	0760511	2PIN HOUSING 70mmX2	1
CN105/CN401/CN405/CP603/CP605	0760513	HEADER 3 PIN (ST)	5
CN102	0760515	2PIN HOUSING 180mmX1	1
CN606/CN607	0760516	HEADER 14 PIN (ST)	2
CP606/CP607	0760517	HEADER 14 PIN (RA)	2
PIN501	0760545	HEADER 28 PIN (RA)	1
CP703	0760547	HEADER 4 PIN (ST)	1
CP701	0760548	HEADER 5 PIN (RA)	1
CN105	0760549	3PIN HOUSING 220mmX1	1
CN101	0760550	2PIN HOUSING 530mmX1	1
CN402	0760551	5PIN HOUSING 240mmX1	1
CN401	0760552	3PIN HOUSING 330mmX1	1
CN404	0760553	9PIN HOUSING 400mmX9	1
CN405	0760554	3PIN HOUSING 360mmX3	1
CP704	0760555	2PIN HOUSING 280mmX1	1
CN604	0760556	6PIN HOUSING 220mmX6	1
CN106	0760557	9PIN HOUSING 220mmX9	1
CN601	0760558	10PIN HOUSING 160mmX10	1
CN603	0760559	3PIN HOUSING 250mmX1	1
CN703	0760560	5PIN HOUSING 380mmX5	1
CN702	0760561	7PIN HOUSING 180mmX7	1
CN701	0760562	6PIN HOUSING 180mmX6	1
CN703	0760563	4PIN HOUSING 180mmX4	1
CN605	0760564	3PIN HOUSING 200mmX1	1
CN804	0760565	8PIN HOUSING 130mmX1	1
CN803	0760566	8PIN HOUSING 130mmX1 RED	1
CN802	0760567	6PIN HOUSING 130mmX1	1
VR811/VR812/VR813	0290030H	SEMI-FIXED 20K (H)	3
VR401	0290053H	SEMI-FIXED B470 OHM (H)	1
VR831	0290055H	SEMI-FIXED 2K	1

REF. NO.	PART NO.	DESCRIPTION	QTY.
	0120008	FERRITE BAR 10X100mm	1
	0120020	ROD ANTENNA	1
	0300109	SPEAKER 5" 3.5OHM 5-8W 50mm	2
	0300110	SPEAKER 2" 3.2OHM 3-5W	2
	0310010	AC SOCKET MKJ-116	1
	0590001	SOLDERING LUG M3 L=15	1
	0640002	COPPER WIRE 0.5X50mm	311
	0700015	AC POWER CORD SET	1
	0700037	SP. WIRE 6.5FT	2
	0720056	CD MECHANISM ASS'Y	1
	0930003	BATTERY PEAK POWERUM3	2
	01077001	MAIN PCB	1
	01077002	FRONT PCB	1
	01077003	12V BATTERY PCB	1
	01077004	4.5V BATTERY PCB	1
	01077005	HEADPHONE & MIC PCB	1
	01077006	LCD PCB	1
	01077007	POWER PCB	1
	01077008	CD MAIN PCB	1
	01077009	REMOTE PCB	1
	06101302AA	JUMPER WIRE 130mm RED	1
	06102500BB	JUMPER WIRE 250mm BLACK	1
	06102502BB	JUMPER WIRE 250mm RED	1
	T770-76	COMPLETED DECK	1
	S770RH	REMOTE HANDSET	1